LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Title : TRACE VOA SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.119	3	9	21	rVB	27532	27432	1.79%	0.282%
2	1.316	62	70	81	rVB2	49940	71331	4.64%	0.734%
3	1.406	91	98	103	rBV	21143	30052	1.96%	0.309%
4	1.586	147	154	164	rVB	34651	39968	2.60%	0.411%
5	1.785	207	216	223	rBV	33451	41692	2.71%	0.429%
6	2.132	312	324	337	rBV2	93076	146313	9.52%	1.505%
7	2.981	577	588	603	rBV3	20556	44834	2.92%	0.461%
8	3.766	813	832	867	rBV2	83319	230373	15.00%	2.369%
9	3.981	884	899	918	rBV2	24910	94839	6.17%	0.975%
10	4.409	1011	1032	1056	rBV3	62170	202411	13.18%	2.082%
11	4.788	1137	1150	1170	rBV	8647	22780	1.48%	0.234%
12	5.097	1229	1246	1272	rBV3	125758	288412	18.78%	2.966%
13	5.415	1324	1345	1359	rBV8	8494	21516	1.40%	0.221%
14	5.531	1366	1381	1393	rBV4	7442	16023	1.04%	0.165%
15	5.666	1408	1423	1444	rBV	111168	215370	14.02%	2.215%
16	6.122	1550	1565	1586	rVB	70670	143478	9.34%	1.476%
17	6.338	1621	1632	1656	rBV	91138	185614	12.08%	1.909%
18	6.926	1806	1815	1825	rBV2	10472	18442	1.20%	0.190%
19	7.032	1837	1848	1864	rBV	35242	60711	3.95%	0.624%
20	7.360	1937	1950	1965	rBV	144544	247916	16.14%	2.550%
21	7.608	2018	2027	2036	rVB2	15007	23544	1.53%	0.242%
22	7.666	2036	2045	2057	rBV	19485	31912	2.08%	0.328%
23	7.984	2131	2144	2160	rBV2	132683	249465	16.24%	2.566%
24	8.142	2179	2193	2224	rBV	165175	316114	20.58%	3.251%
25	8.290	2227	2239	2260	rBV	224160	378956	24.67%	3.898%
26	8.717	2358	2372	2387	rBV	23484	39839	2.59%	0.410%
27	8.897	2414	2428	2450	rVB	165373	273109	17.78%	2.809%
28	9.248	2527	2537	2556	rVB2	18311	30495	1.99%	0.314%
29	9.855	2714	2726	2748	rBV	391522	597607	38.90%	6.146%
30	10.212	2823	2837	2845	rBV	28473	45217	2.94%	0.465%
31	10.264	2845	2853	2866	rVB	54124	84405	5.49%	0.868%
32	10.428	2890	2904	2920	rBV	340427	577686	37.61%	5.941%
33	10.560	2933	2945	2958	rBV3	26137	44009	2.86%	0.453%
34	10.752	2995	3005	3014	rBV4	11830	19736	1.28%	0.203%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Title : TRACE VOA SOM01.0

35	10.862	3029	3039	3054	rBV3	21327	37658	2.45%	0.387%
36	11.196	3123	3143	3164	rBV	884544	1294012	84.24%	13.309%
37	11.296	3164	3174	3196	rVB	191933	309385	20.14%	3.182%
38	11.498	3225	3237	3249	rVB	31875	49873	3.25%	0.513%
39	11.579	3252	3262	3279	rVV	85717	151657	9.87%	1.560%
40	11.675	3281	3292	3312	rVB	167644	277883	18.09%	2.858%
41	11.826	3330	3339	3351	rBV	40691	61756	4.02%	0.635%
42	11.997	3374	3392	3401	rBV5	17668	42242	2.75%	0.434%
43	12.055	3401	3410	3436	rVB2	48485	107172	6.98%	1.102%
44	12.299	3472	3486	3503	rVB2	164199	289343	18.84%	2.976%
45	12.392	3503	3515	3531	rBV	1085010	1536132	100.00%	15.799%
46	12.662	3589	3599	3611	rBV2	22228	35225	2.29%	0.362%
47	12.974	3690	3696	3710	rVB	16911	24737	1.61%	0.254%
48	13.145	3742	3749	3763	rVB	65273	102053	6.64%	1.050%
49	13.370	3810	3819	3839	rVB4	20074	37601	2.45%	0.387%
50	13.485	3844	3855	3870	rBV	298808	434574	28.29%	4.470%
51	13.727	3923	3930	3941	rVB3	16700	24177	1.57%	0.249%
52	14.093	4034	4044	4051	rBV	18963	30100	1.96%	0.310%
53	14.383	4126	4134	4147	rVB2	10377	15777	1.03%	0.162%

Sum of corrected areas: 9722958

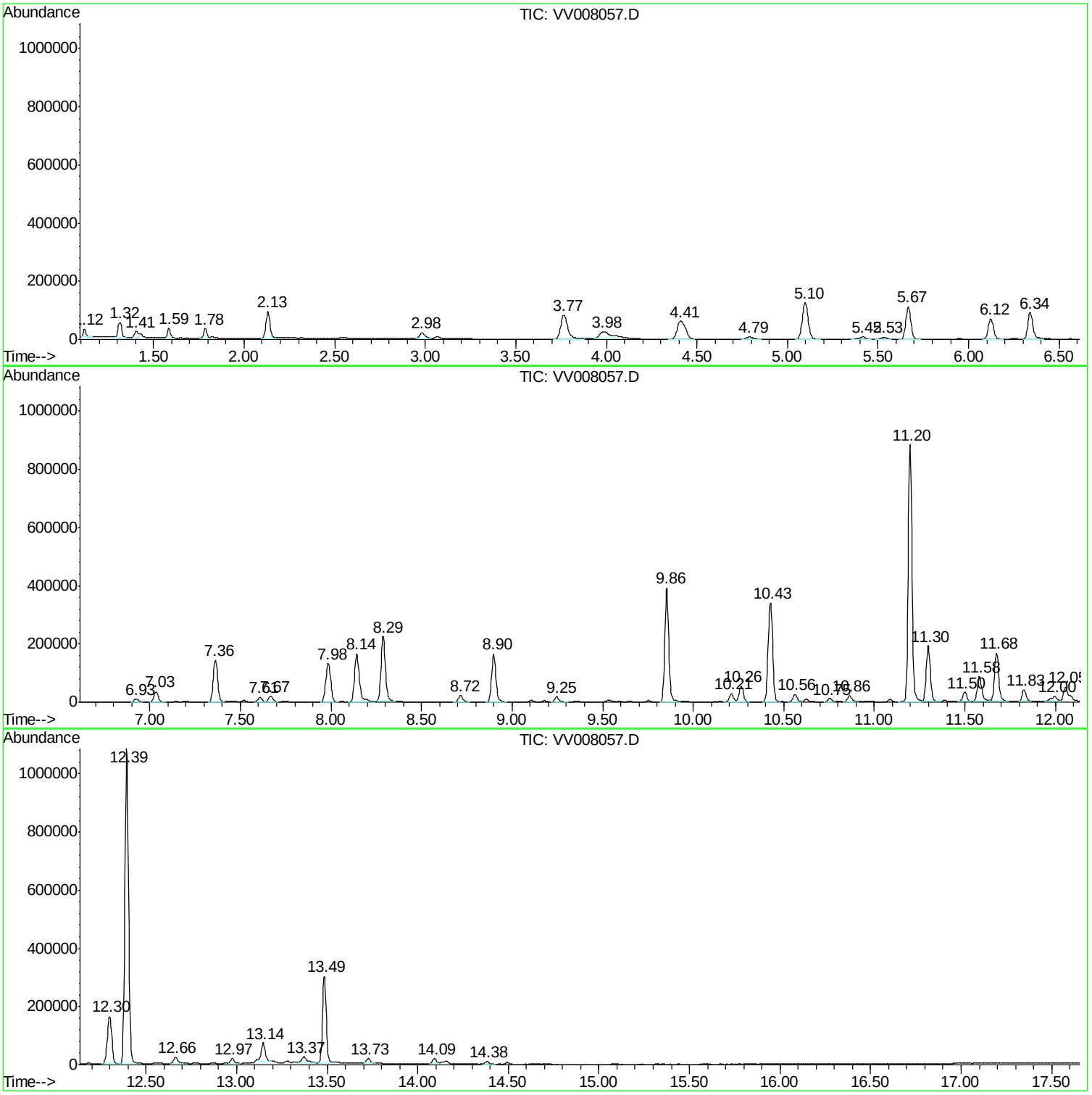
LSC Report - Integrated Chromatogram

Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0

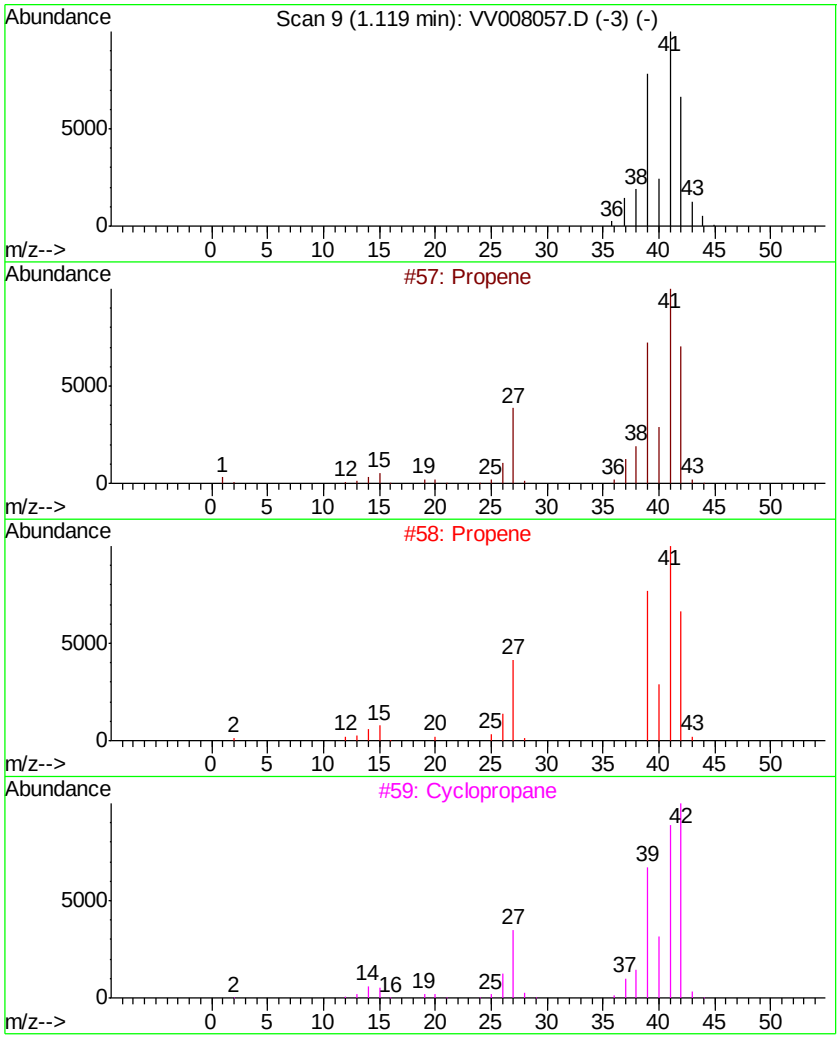
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

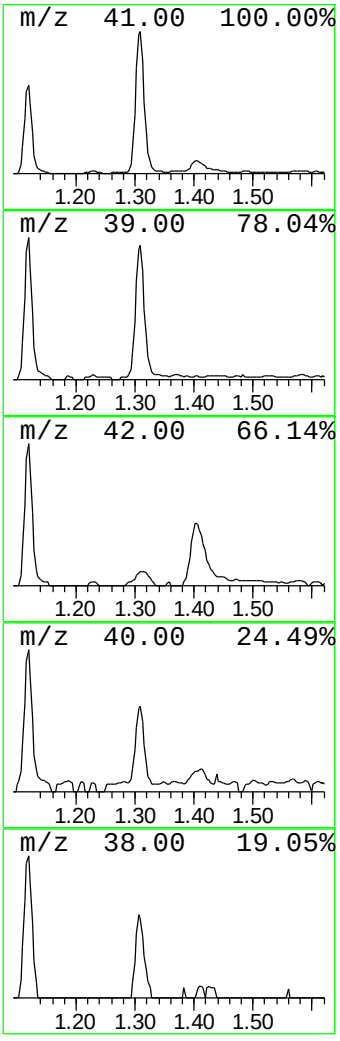
****

Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.12	0.64 ug/L	27432	1,4-Difluorobenzene	5.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propene	42	C3H6	000115-07-1	90
2	Propene	42	C3H6	000115-07-1	45
3	Cyclopropane	42	C3H6	000075-19-4	43
4	Cyclopropane	42	C3H6	000075-19-4	9
5	Cyclopropene	40	C3H4	002781-85-3	9





Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0

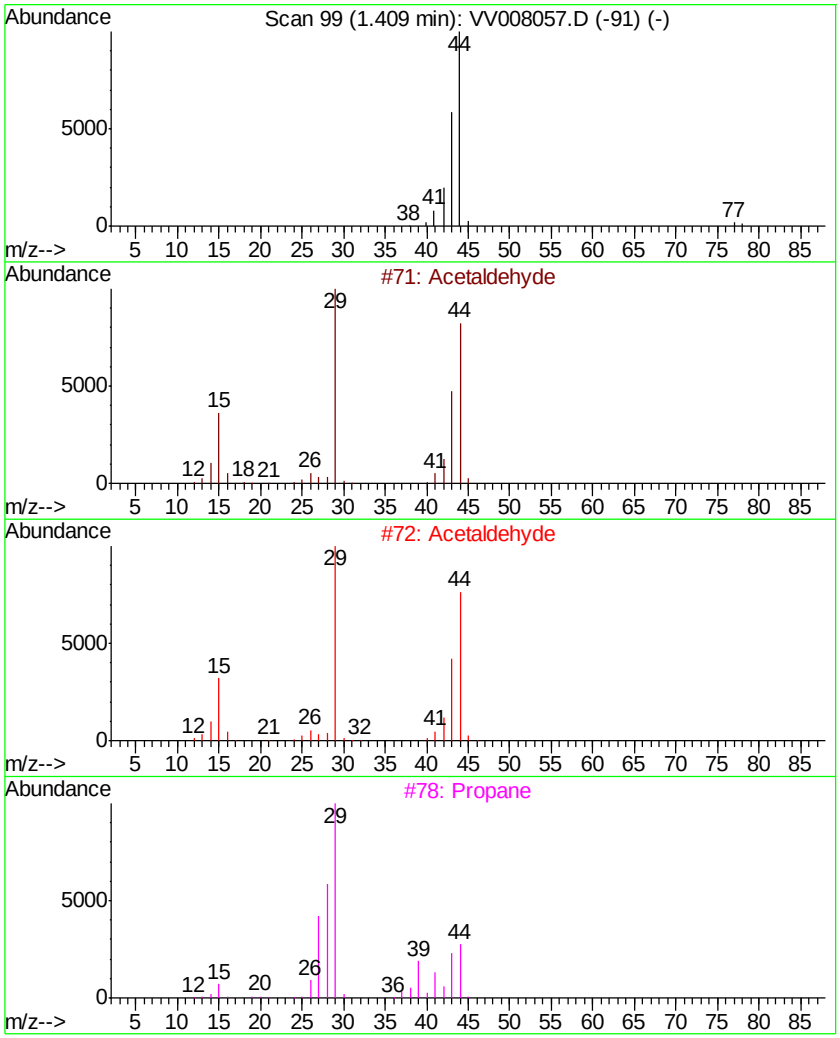
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

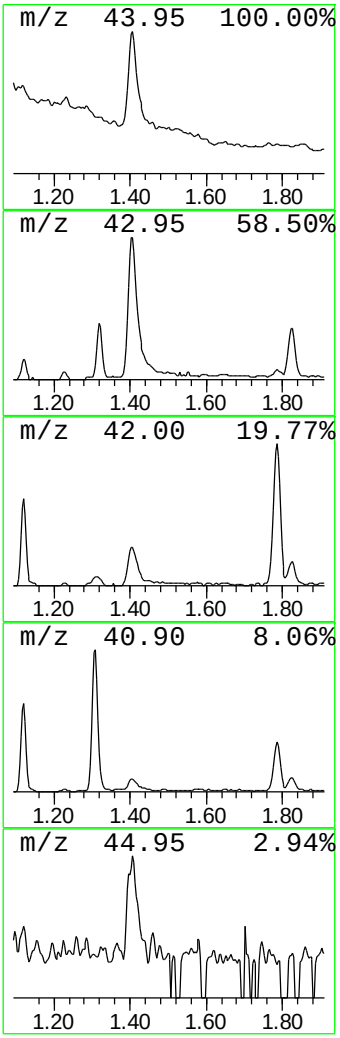
****

Peak Number 2 Acetaldehyde Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.41	0.70 ug/L	30052	1,4-Difluorobenzene	5.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetaldehyde	44	C2H4O	000075-07-0	74
2	Acetaldehyde	44	C2H4O	000075-07-0	74
3	Propane	44	C3H8	000074-98-6	5
4	Ethylene oxide	44	C2H4O	000075-21-8	5
5	Ethylene oxide	44	C2H4O	000075-21-8	5





Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

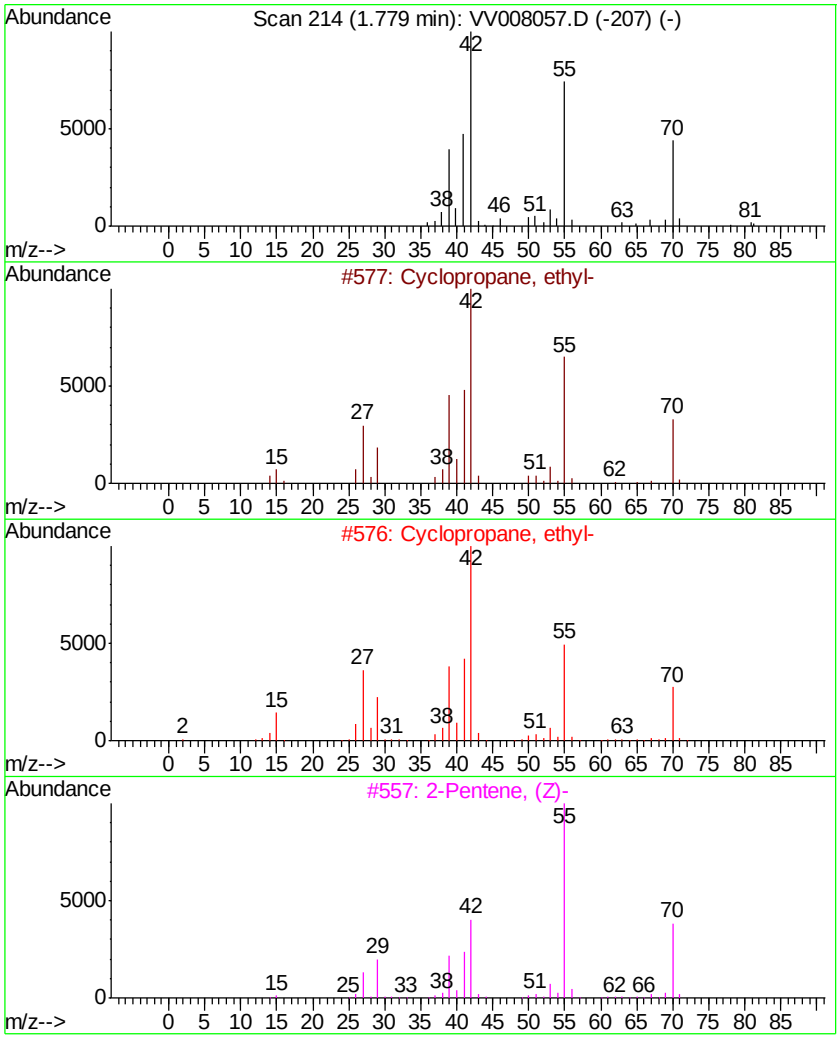
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0

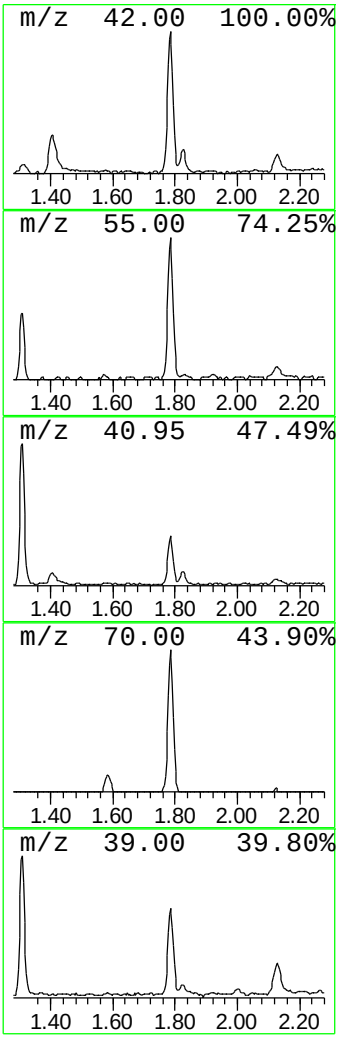
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 (DEL) Alkane: Cyclic1.78 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.78	0.97 ug/L	41692	1,4-Difluorobenzene	5.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopropane, ethyl-	70	C5H10	001191-96-4	87
2	Cyclopropane, ethyl-	70	C5H10	001191-96-4	83
3	2-Pentene, (Z)-	70	C5H10	000627-20-3	80
4	1-Pentene	70	C5H10	000109-67-1	72
5	1-Pentene	70	C5H10	000109-67-1	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

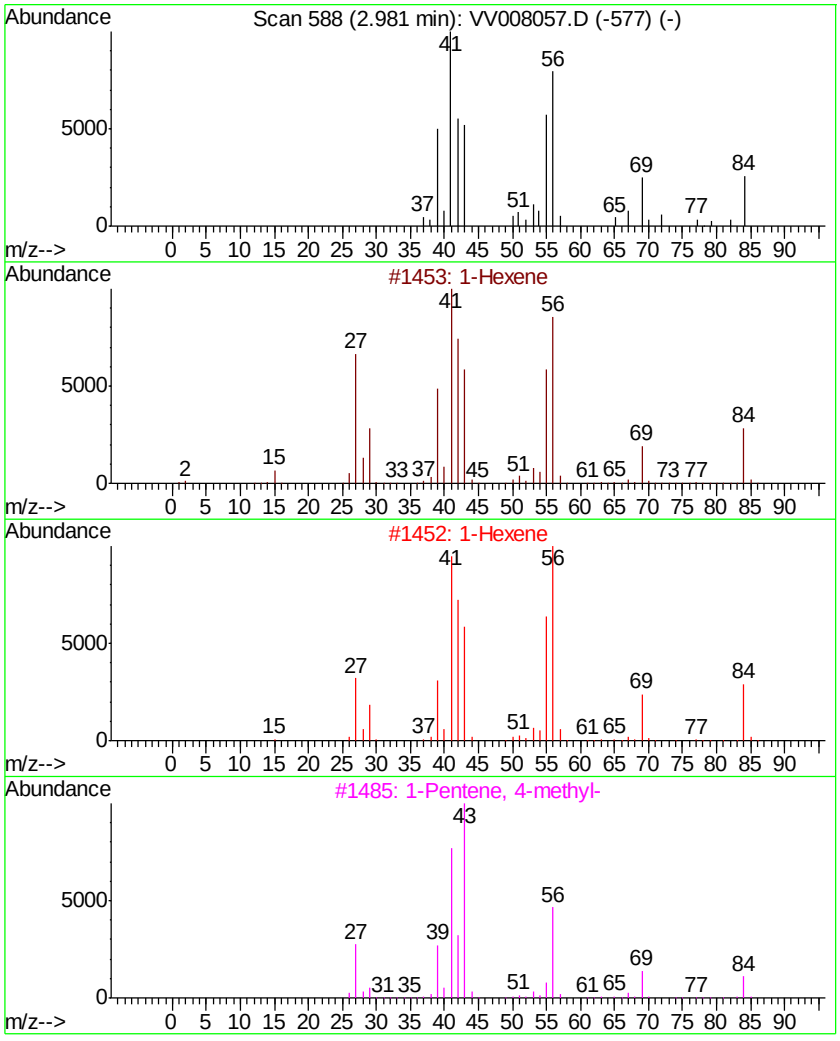
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0

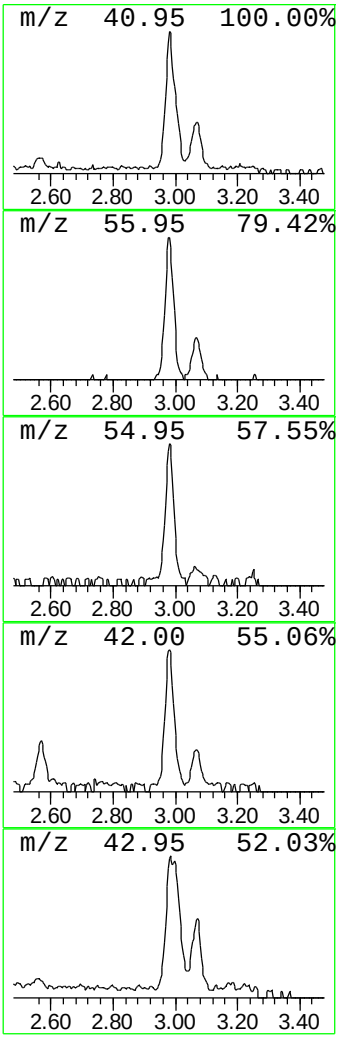
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 (DEL) Alkane: Cyclic2.98 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.98	1.04 ug/L	44834	1,4-Difluorobenzene	5.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexene	84	C6H12	000592-41-6	90
2	1-Hexene	84	C6H12	000592-41-6	68
3	1-Pentene, 4-methyl-	84	C6H12	000691-37-2	64
4	1-Pentene, 2-methyl-	84	C6H12	000763-29-1	50
5	1-Pentene, 2-methyl-	84	C6H12	000763-29-1	47





Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0

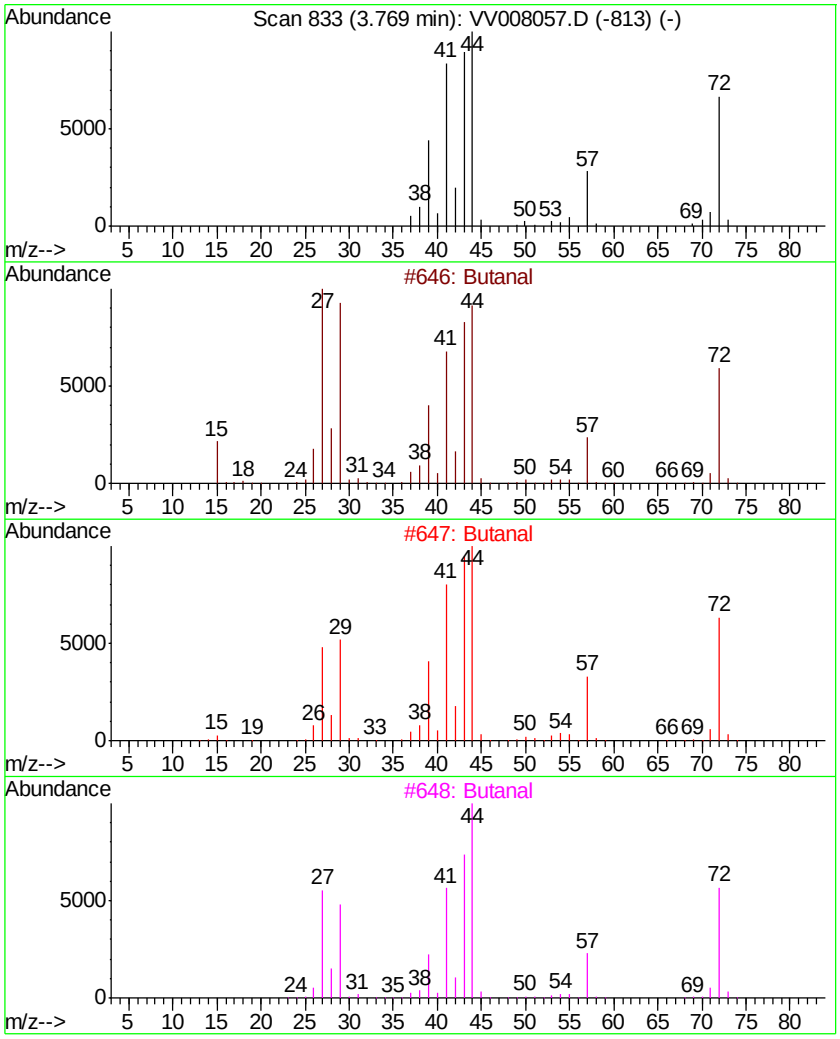
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

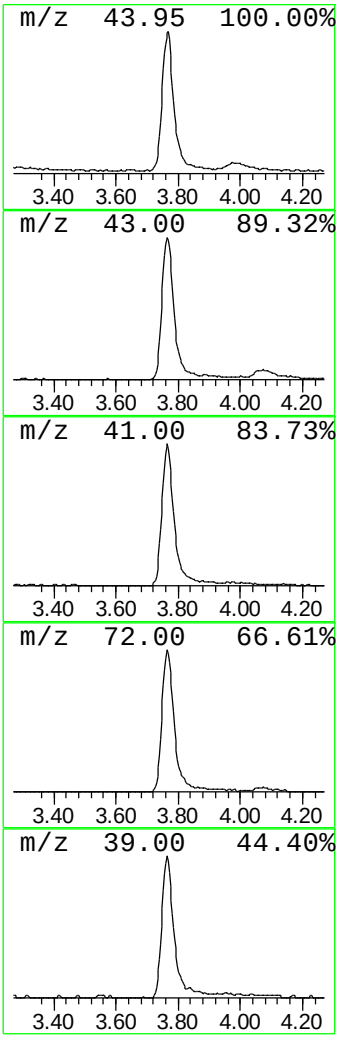
****

Peak Number 5 Butanal Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.77	5.35 ug/L	230373	1,4-Difluorobenzene	5.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanal	72	C4H8O	000123-72-8	91
2	Butanal	72	C4H8O	000123-72-8	87
3	Butanal	72	C4H8O	000123-72-8	58
4	Butanal	72	C4H8O	000123-72-8	50
5	Ethene, ethoxy-	72	C4H8O	000109-92-2	38





Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0

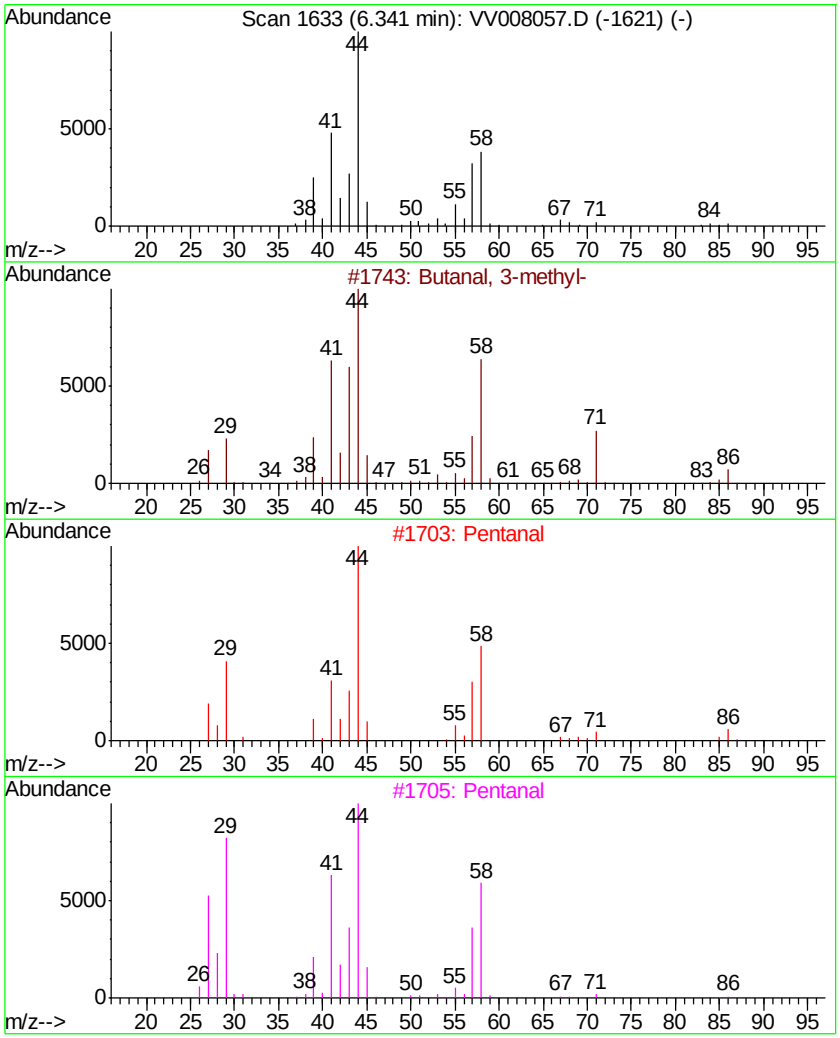
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

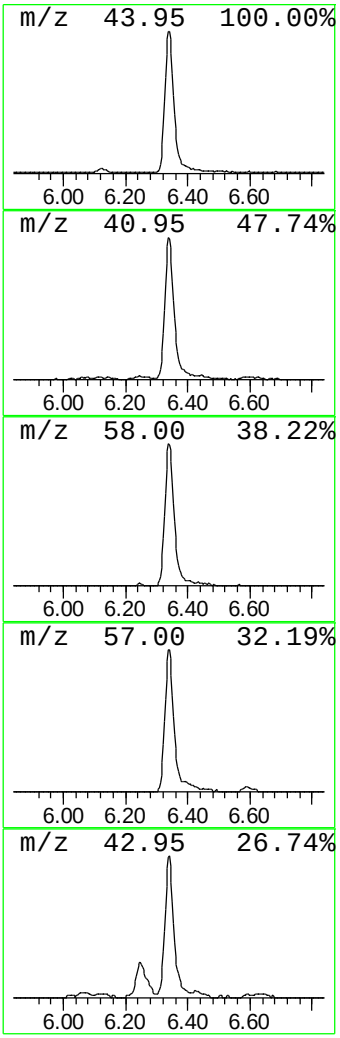
****

Peak Number 7 Butanal, 3-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.34	4.31 ug/L	185614	1,4-Difluorobenzene	5.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanal, 3-methyl-	86	C5H10O	000590-86-3	83
2	Pentanal	86	C5H10O	000110-62-3	64
3	Pentanal	86	C5H10O	000110-62-3	52
4	Butanal, 3-methyl-	86	C5H10O	000590-86-3	42
5	Cyclopropyl carbinol	72	C4H8O	002516-33-8	40





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0

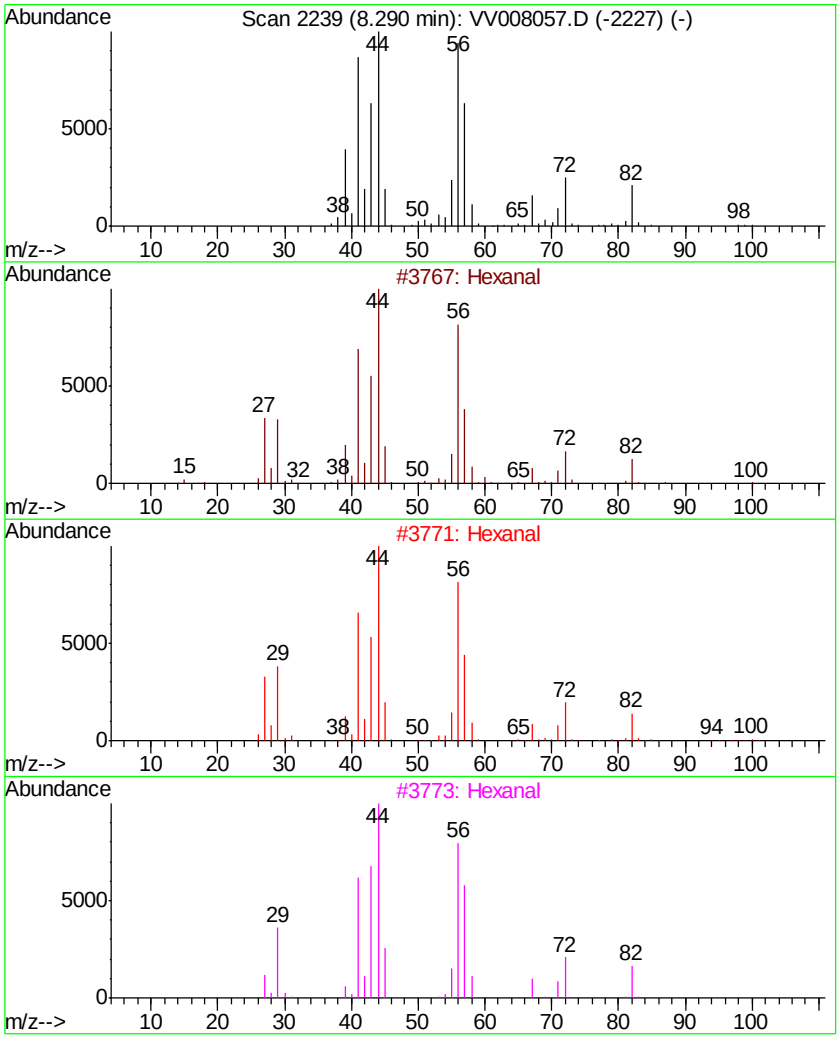
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

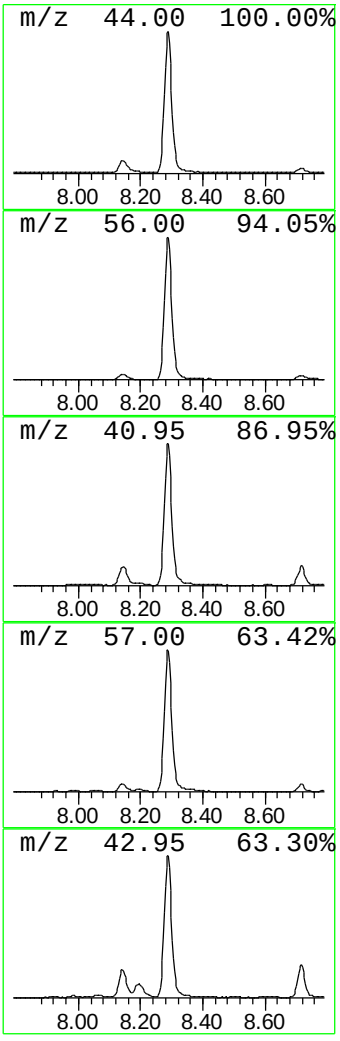
****

Peak Number 10 Hexanal Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.29	6.94 ug/L	378956	Chlorobenzene-d5	8.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanal	100	C6H12O	000066-25-1	64
2	Hexanal	100	C6H12O	000066-25-1	64
3	Hexanal	100	C6H12O	000066-25-1	64
4	Hexanal	100	C6H12O	000066-25-1	64
5	Butanal	72	C4H8O	000123-72-8	38





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0

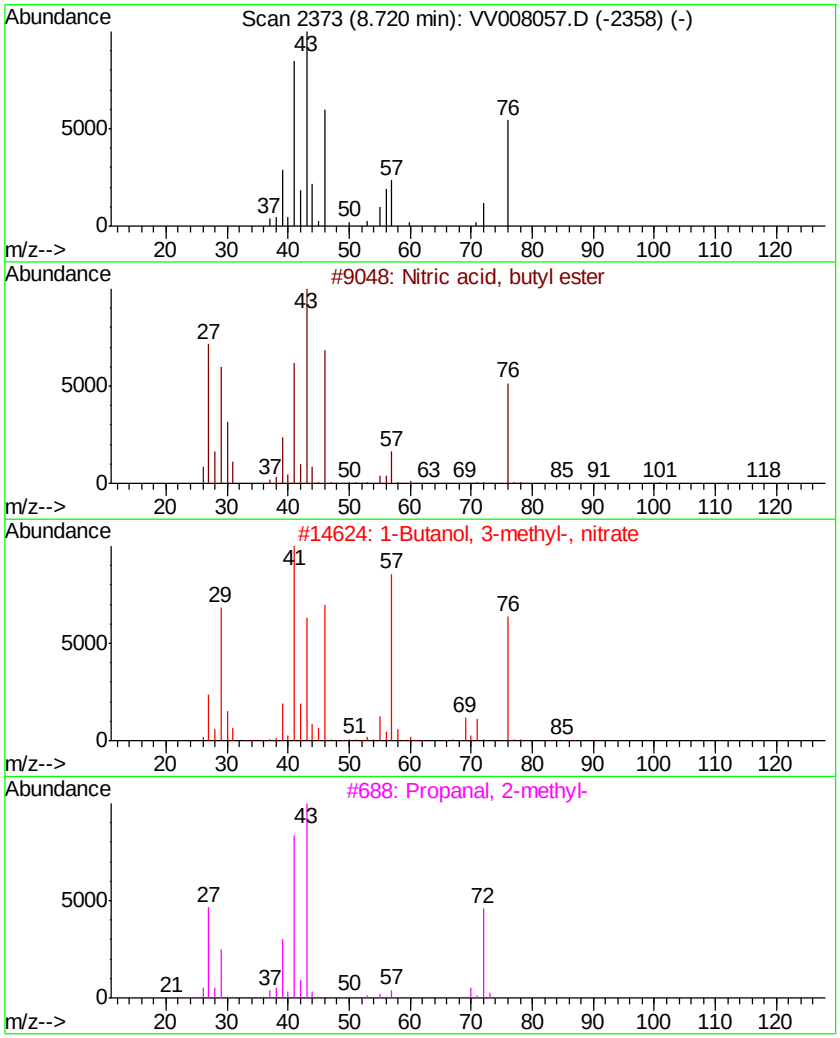
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

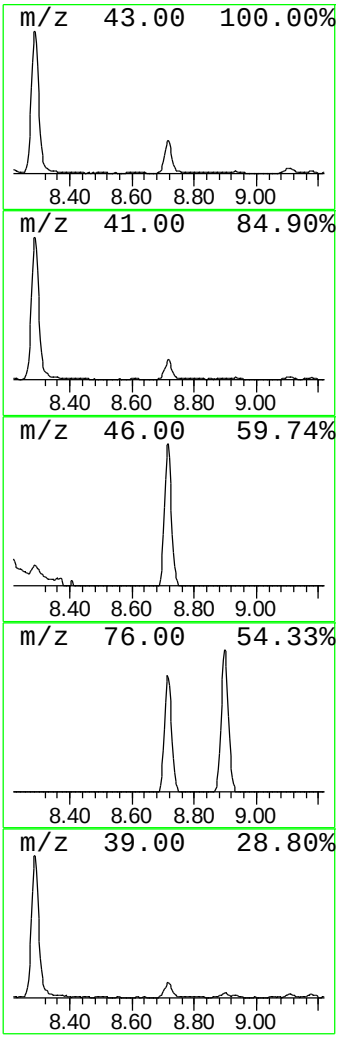
****

Peak Number 11 Nitric acid, butyl ester Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.72	0.73 ug/L	39839	Chlorobenzene-d5	8.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nitric acid, butyl ester	119	C4H9NO3	000928-45-0	38
2	1-Butanol, 3-methyl-, nitrate	133	C5H11NO3	000543-87-3	28
3	Propanal, 2-methyl-	72	C4H8O	000078-84-2	22
4	2-Propanethiol	76	C3H8S	000075-33-2	12
5	2-Propanethiol	76	C3H8S	000075-33-2	12





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0

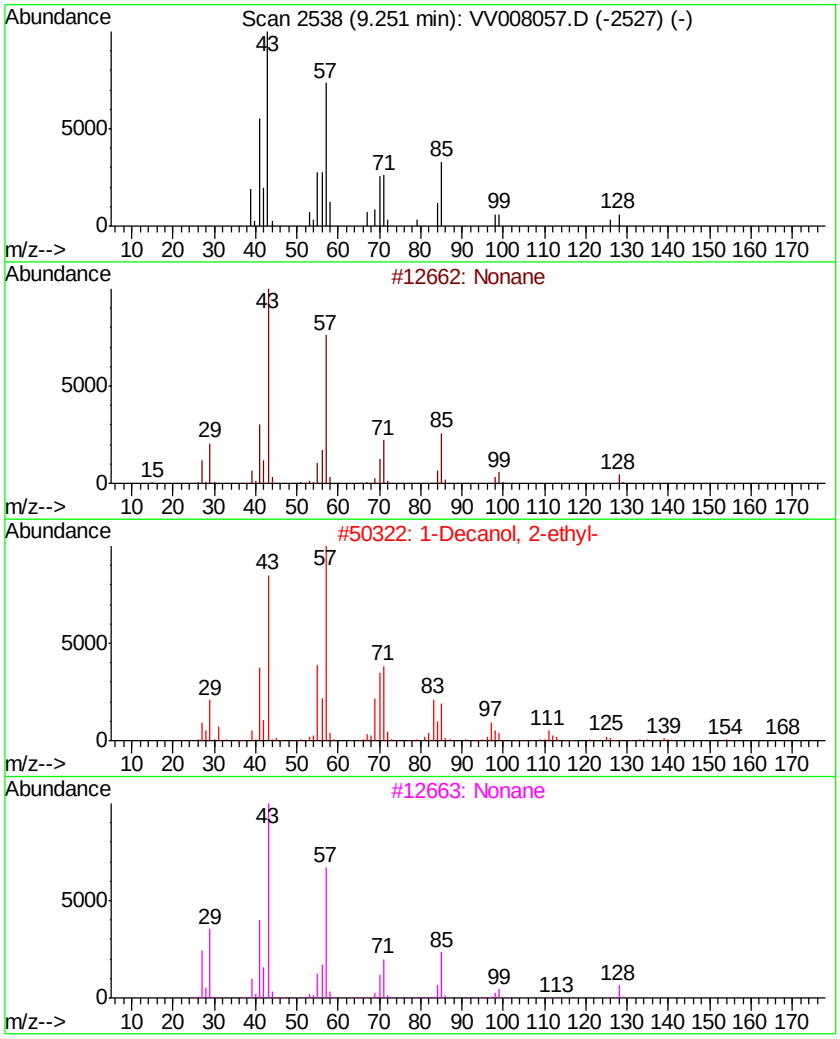
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

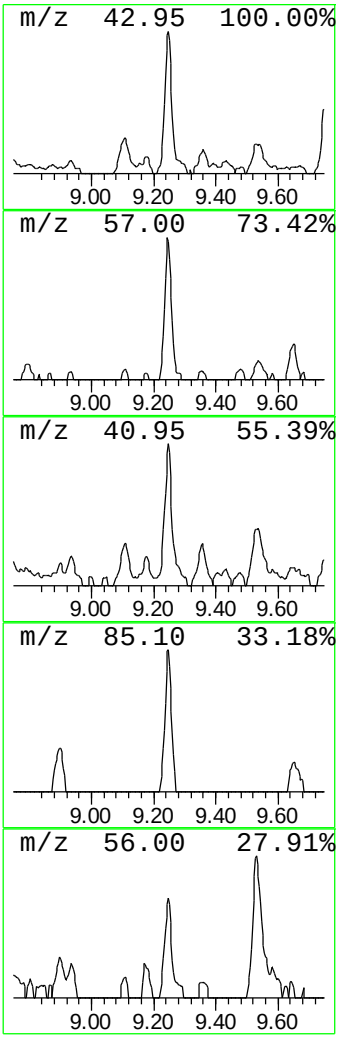
****

Peak Number 12 (DEL) Alkane: Straight-Chai... Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.25	0.56 ug/L	30495	Chlorobenzene-d5	8.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane	128	C9H20	000111-84-2	64
2	1-Decanol, 2-ethyl-	186	C12H26O	021078-65-9	59
3	Nonane	128	C9H20	000111-84-2	59
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
5	2,4,6,8-Tetramethyl-1-undecene	210	C15H30	059920-26-2	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0

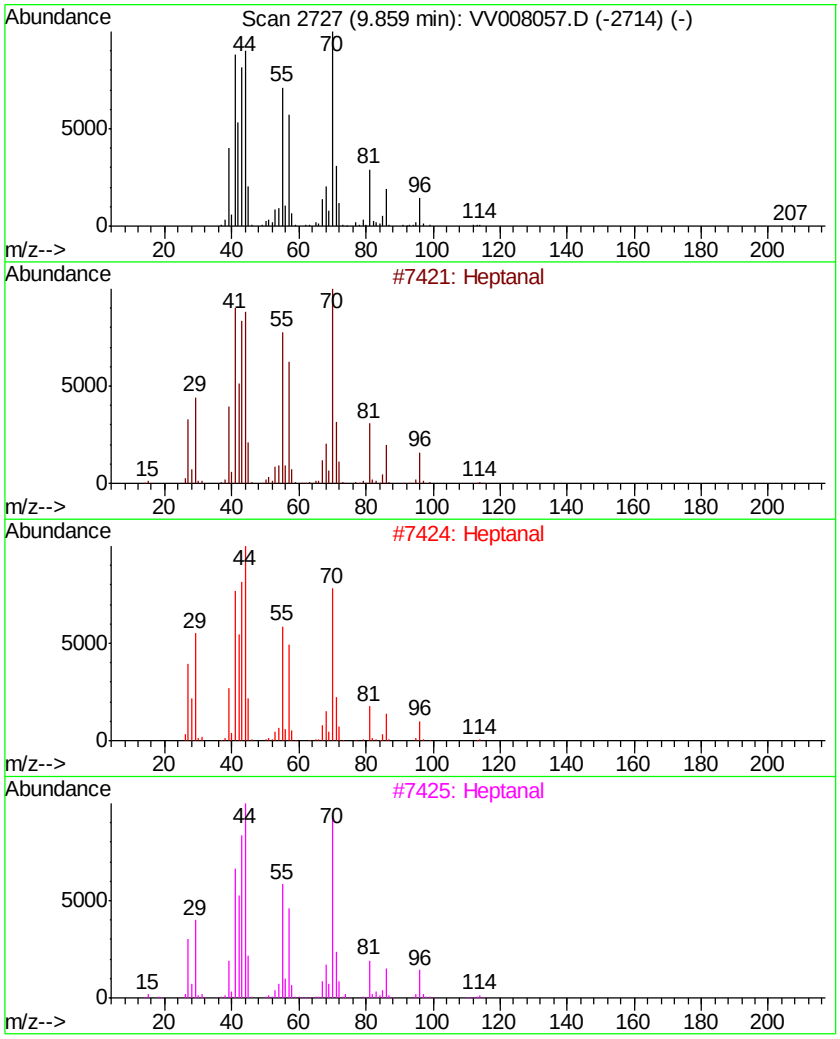
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

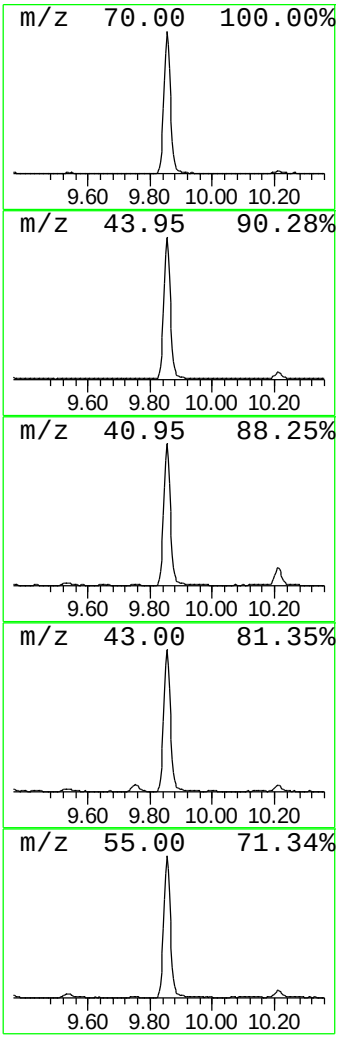
****

Peak Number 13 Heptanal Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.86	10.94 ug/L	597607	Chlorobenzene-d5	8.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptanal	114	C7H14O	000111-71-7	98
2	Heptanal	114	C7H14O	000111-71-7	87
3	Heptanal	114	C7H14O	000111-71-7	83
4	Heptanal	114	C7H14O	000111-71-7	62
5	2,4-Dimethyl-1-heptene	126	C9H18	019549-87-2	38





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0

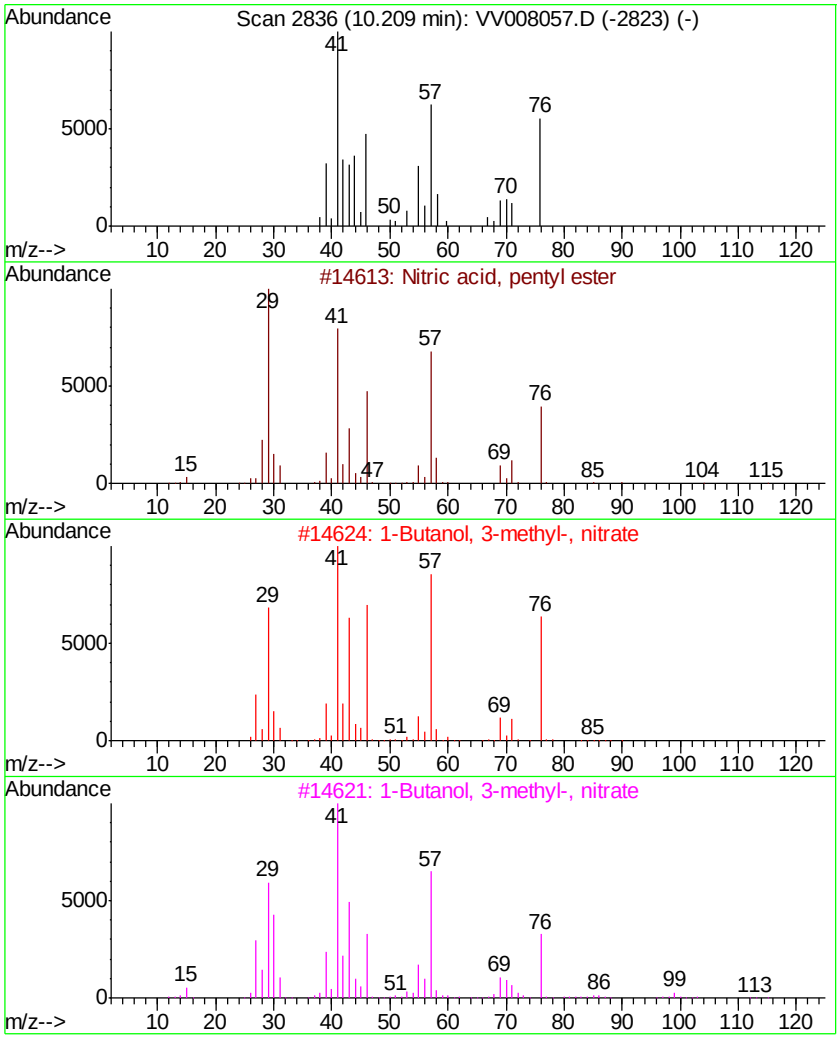
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

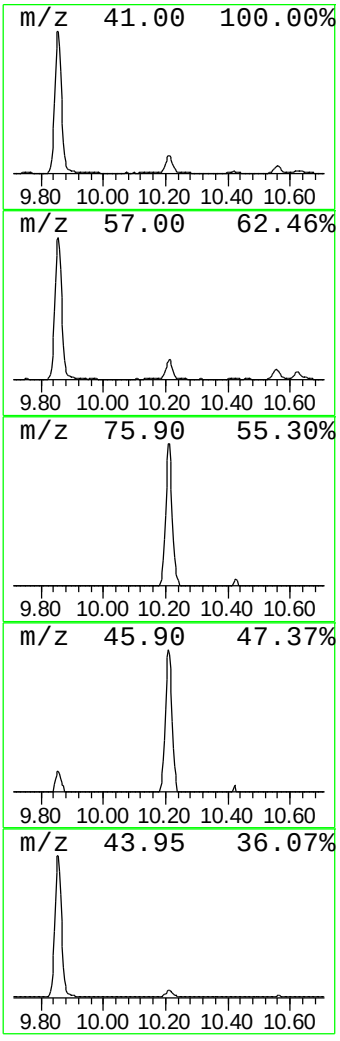
****

Peak Number 14 Nitric acid, pentyl ester Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	0.73 ug/L	45217	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nitric acid, pentyl ester	133	C5H11NO3	001002-16-0	59
2	1-Butanol, 3-methyl-, nitrate	133	C5H11NO3	000543-87-3	53
3	1-Butanol, 3-methyl-, nitrate	133	C5H11NO3	000543-87-3	42
4	Isoamyl nitrite	117	C5H11NO2	000110-46-3	12
5	Butanal, 3-hydroxy-	88	C4H8O2	000107-89-1	9





Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0

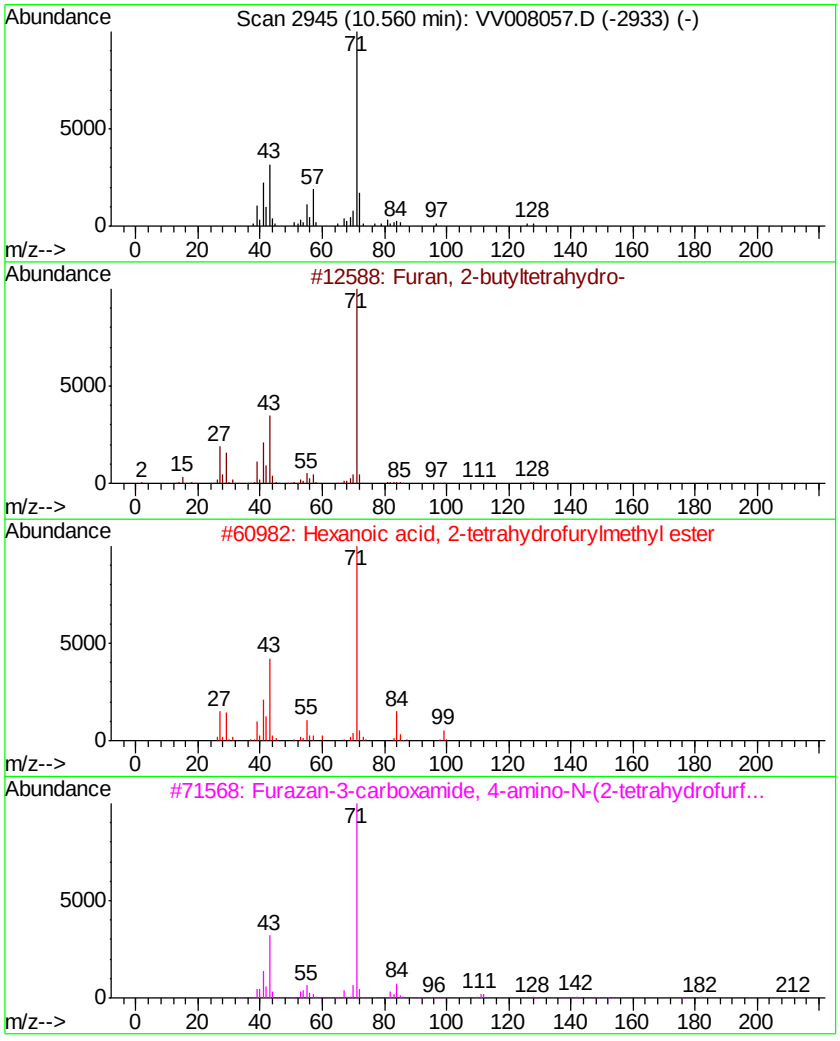
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

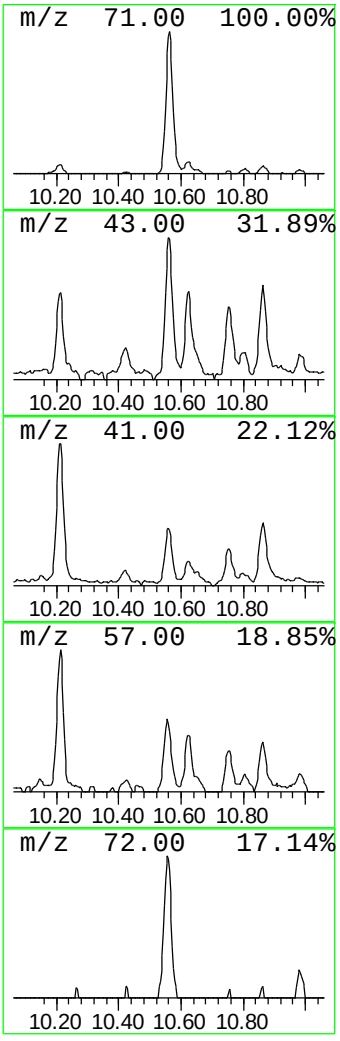
****

Peak Number 16 Furan, 2-butyltetrahydro- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.56	0.71 ug/L	44009	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furan, 2-butyltetrahydro-	128	C8H16O	001004-29-1	72
2	Hexanoic acid, 2-tetrahydrofuryl...	200	C11H20O3	002217-34-7	64
3	Furazan-3-carboxamide, 4-amino-N...	212	C8H12N4O3	309735-27-1	50
4	2,4-Dimethyl-1-penten-3-ol	114	C7H14O	019781-54-5	40
5	Glutaric acid, ditetrahydrofurfu...	300	C15H24O6	1000359-67-4	39





Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0

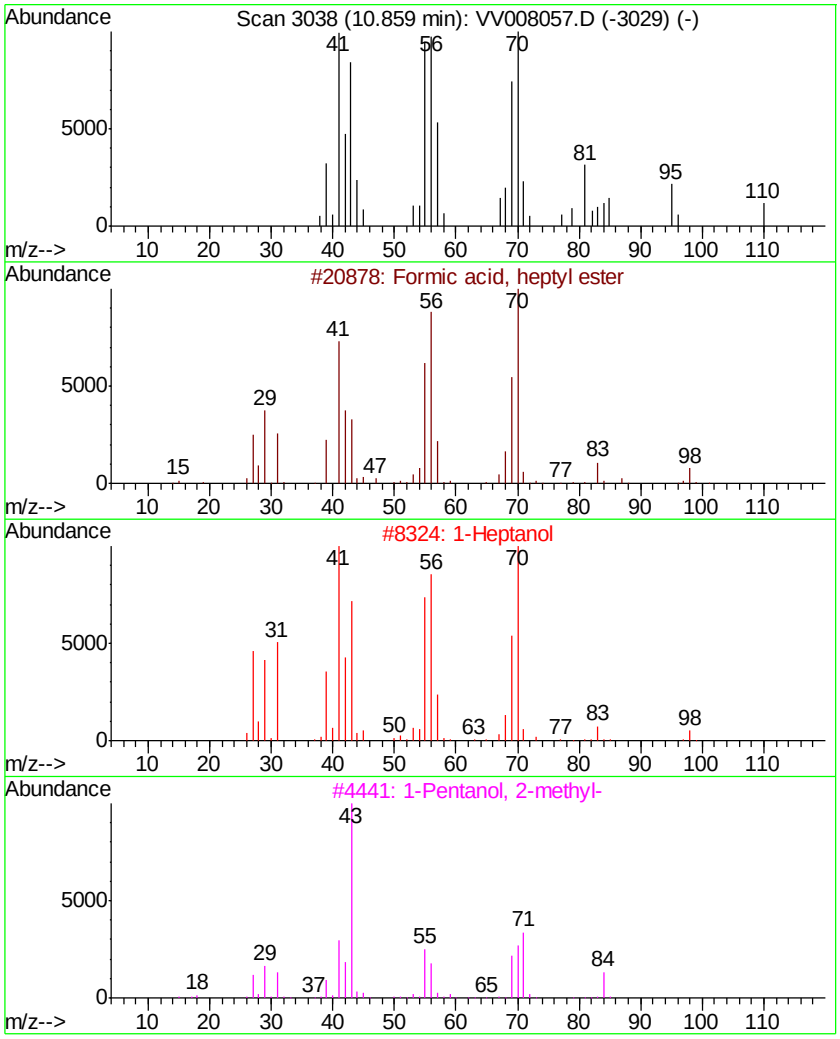
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

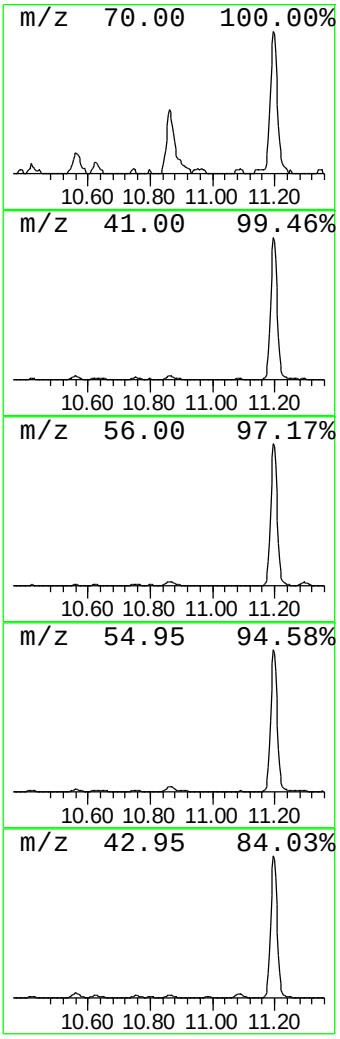
****

Peak Number 17 Formic acid, heptyl ester Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.86	0.61 ug/L	37658	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Formic acid, heptyl ester	144	C8H16O2	000112-23-2	64
2	1-Heptanol	116	C7H16O	000111-70-6	64
3	1-Pentanol, 2-methyl-	102	C6H14O	000105-30-6	53
4	2,3-Dimethyl-aziridine	71	C4H9N	002549-68-0	49
5	1-Heptanol	116	C7H16O	000111-70-6	47





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0

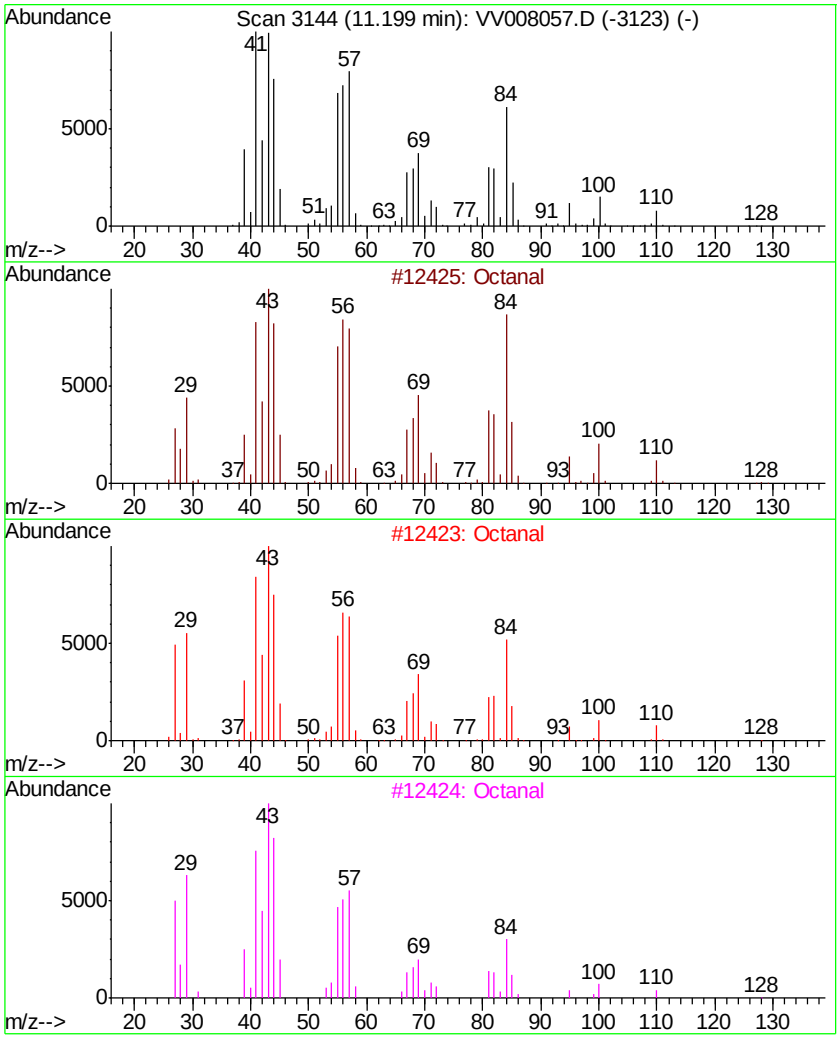
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

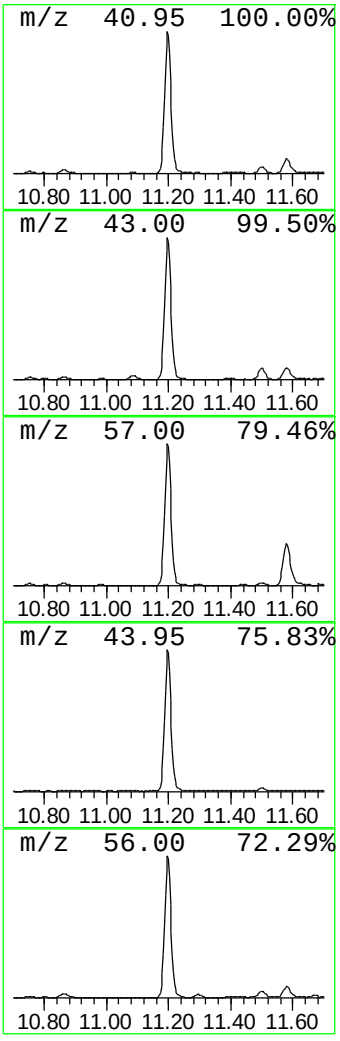
****

Peak Number 18 Octanal Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.20	20.91 ug/L	1294010	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octanal	128	C8H16O	000124-13-0	97
2	Octanal	128	C8H16O	000124-13-0	97
3	Octanal	128	C8H16O	000124-13-0	95
4	Octanal	128	C8H16O	000124-13-0	91
5	Octanal	128	C8H16O	000124-13-0	83





Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0

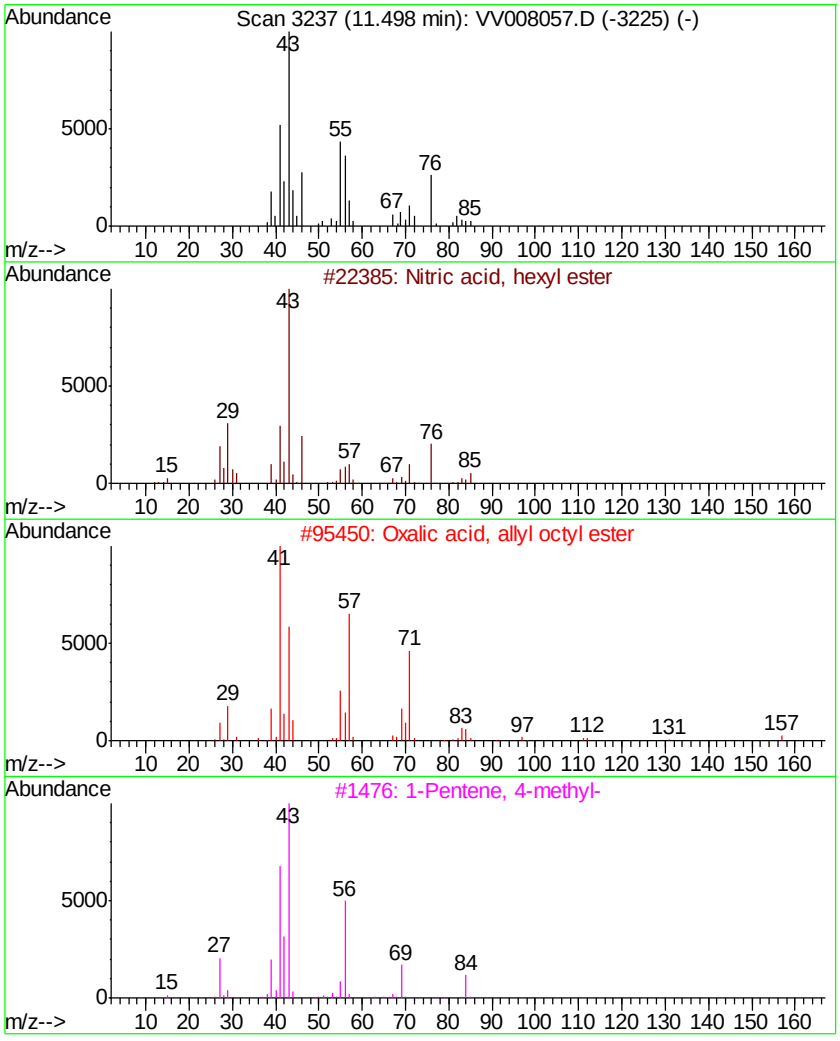
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

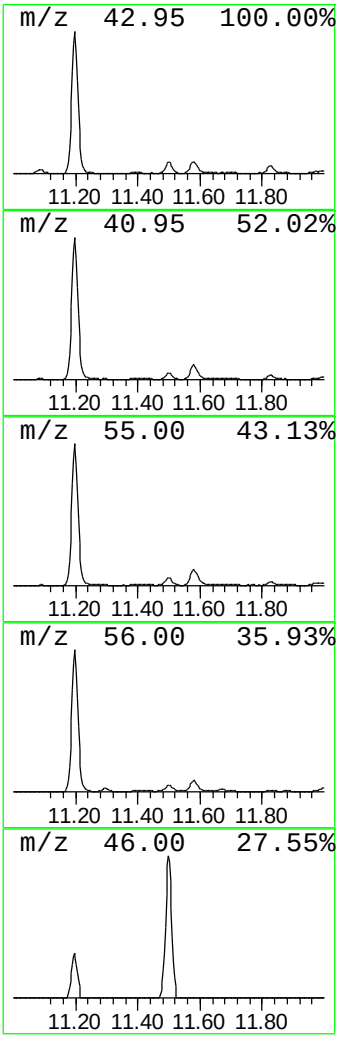
****

Peak Number 19 Nitric acid, hexyl ester Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.50	0.81 ug/L	49873	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nitric acid, hexyl ester	147	C6H13NO3	020633-11-8	42
2	Oxalic acid, allyl octyl ester	242	C13H22O4	1000309-23-6	37
3	1-Pentene, 4-methyl-	84	C6H12	000691-37-2	17
4	Amyl nitrite	117	C5H11NO2	000463-04-7	12
5	Nitric acid, pentyl ester	133	C5H11NO3	001002-16-0	12





Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0

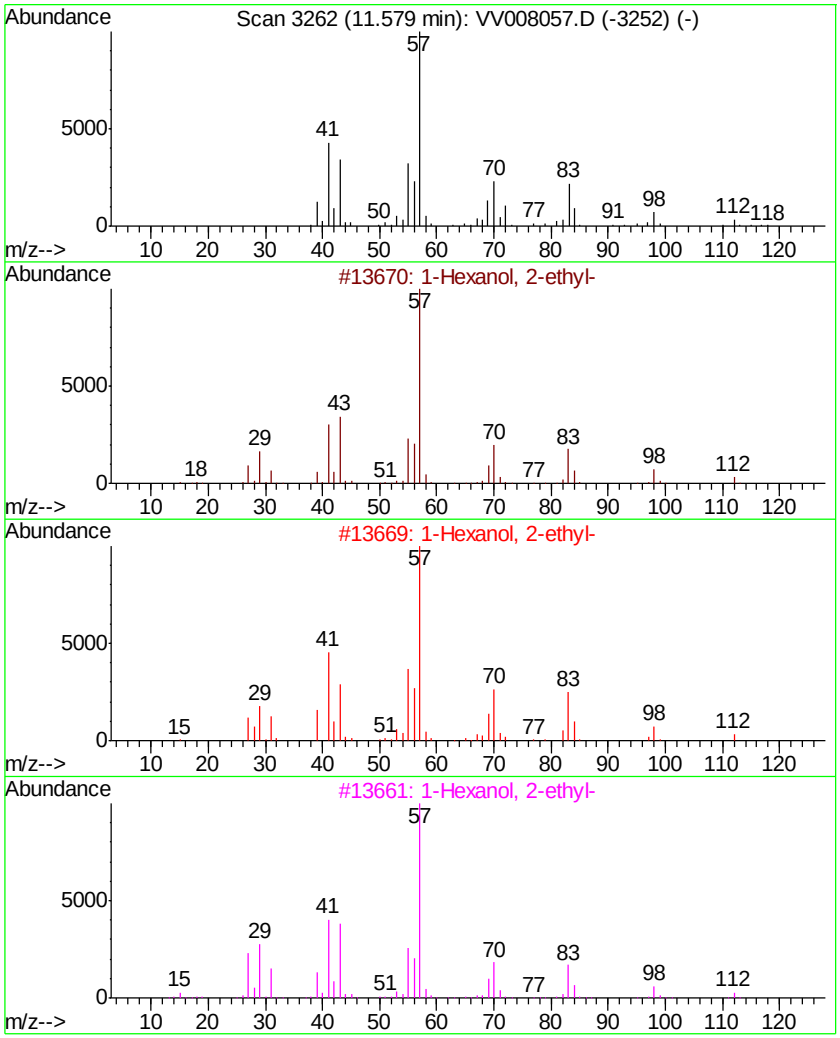
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

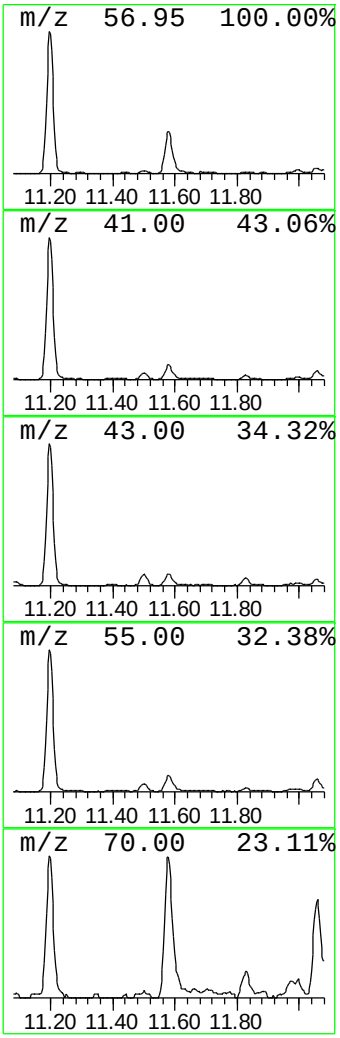
****

Peak Number 20 1-Hexanol, 2-ethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.58	2.45 ug/L	151657	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	86
2	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	78
3	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	72
4	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	64
5	1-Pentanol, 2-ethyl-4-methyl-	130	C8H18O	000106-67-2	59





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0

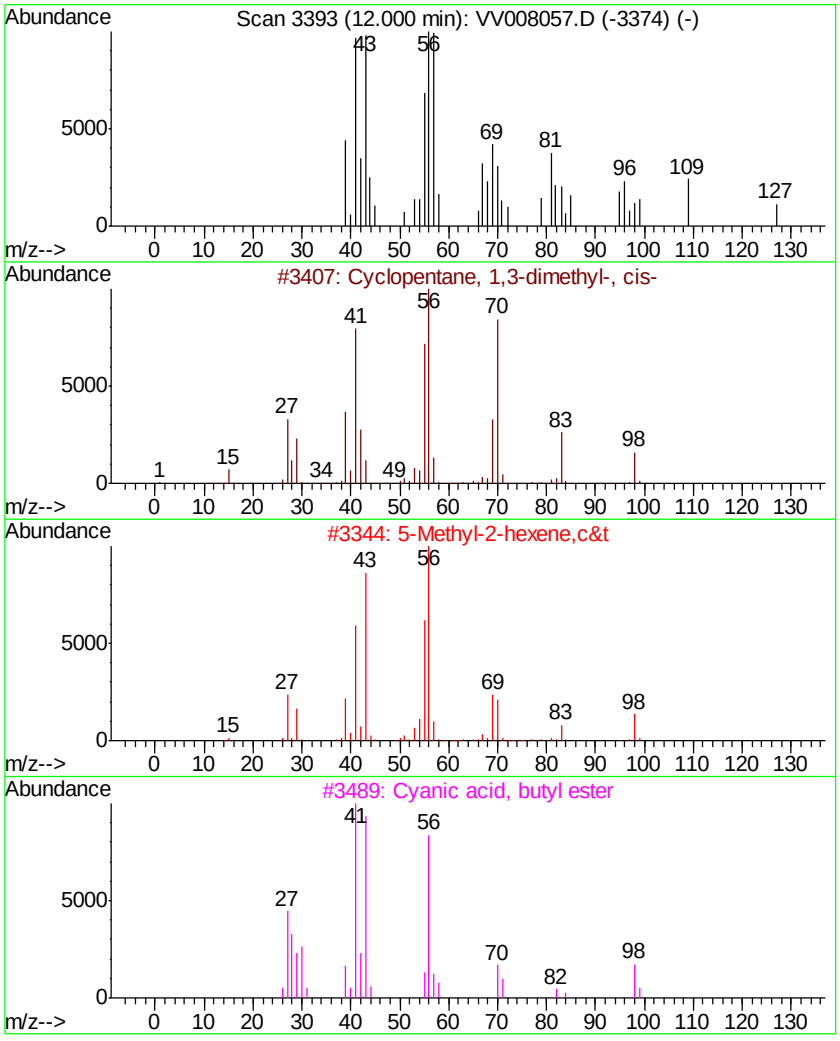
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

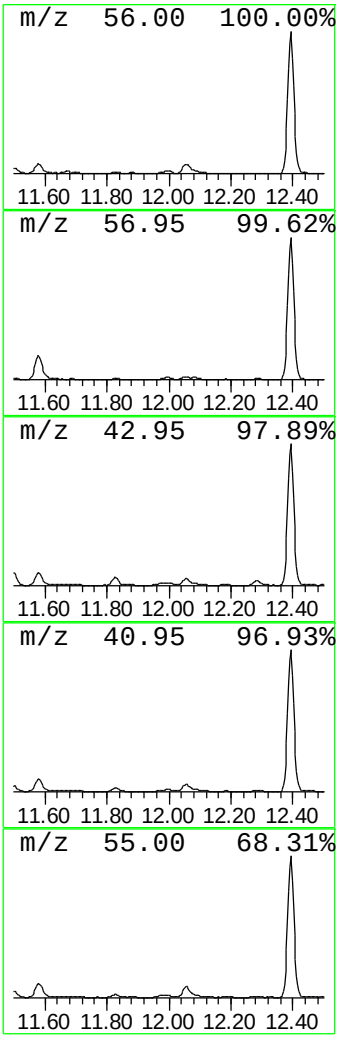
****

Peak Number 22 unknown-01 Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	0.68 ug/L	42242	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	43
2	5-Methyl-2-hexene,c&t	98	C7H14	003404-62-4	43
3	Cyanic acid, butyl ester	99	C5H9NO	001768-24-7	43
4	2-Hexene, 5-methyl-, (E)-	98	C7H14	007385-82-2	38
5	(Z)-2-Heptene	98	C7H14	006443-92-1	38





Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0

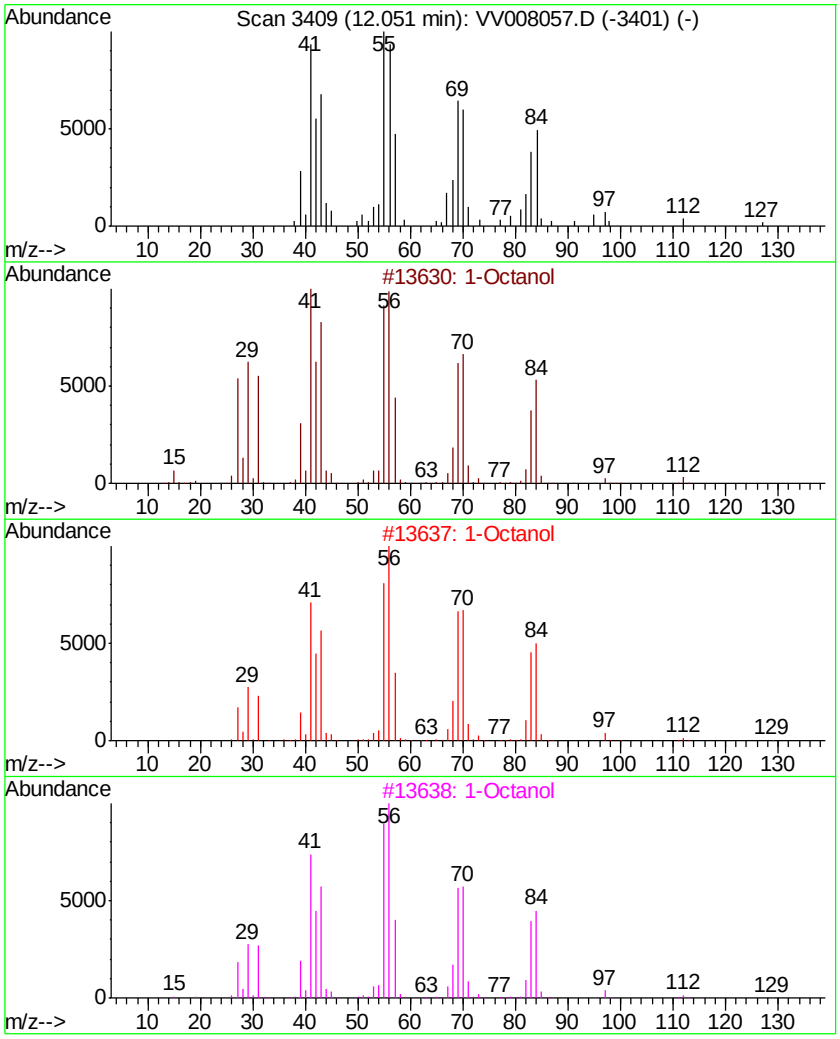
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

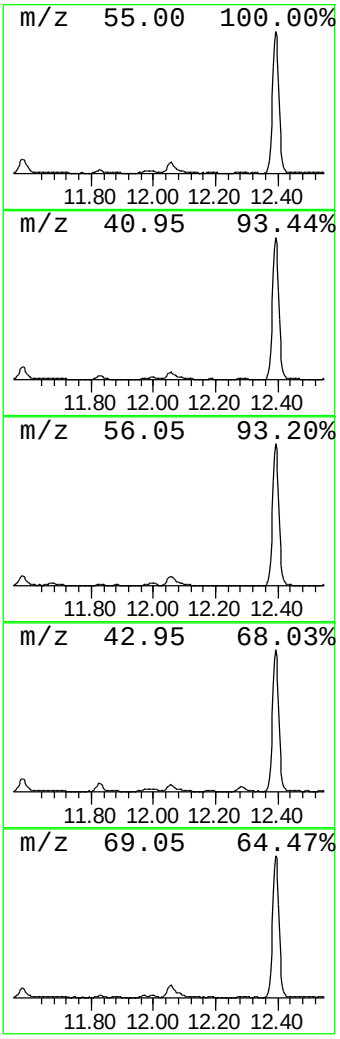
****

Peak Number 23 1-Octanol Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	1.73 ug/L	107172	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Octanol	130	C8H18O	000111-87-5	91
2	1-Octanol	130	C8H18O	000111-87-5	90
3	1-Octanol	130	C8H18O	000111-87-5	90
4	1-Octanol	130	C8H18O	000111-87-5	86
5	Cyclooctane	112	C8H16	000292-64-8	80





Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0

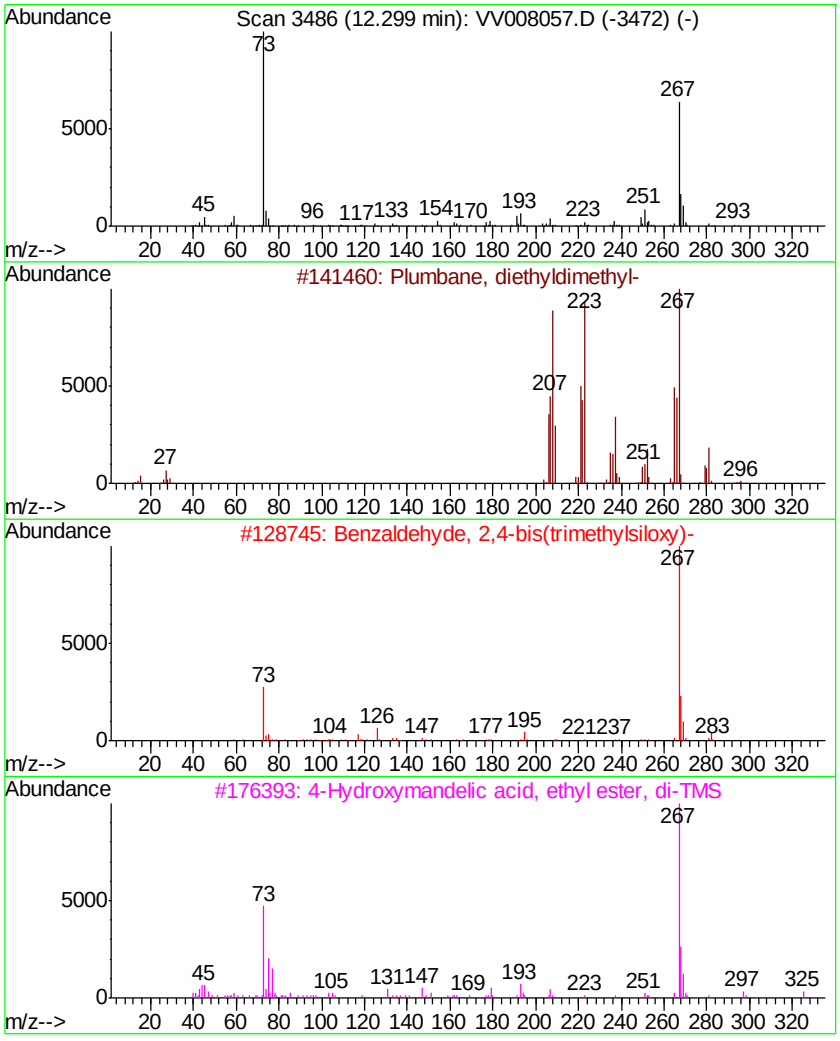
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

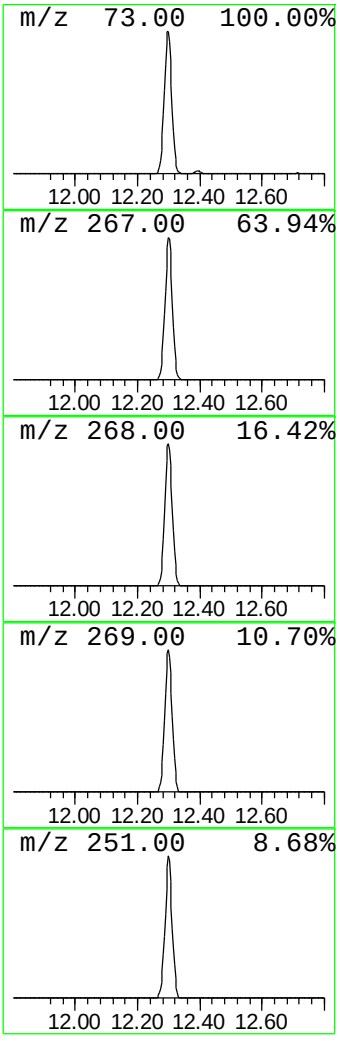
****

Peak Number 24 Plumbane, diethyldimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.30	4.68 ug/L	289343	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Plumbane, diethyldimethyl-	296	C6H16Pb	001762-27-2	91
2	Benzaldehyde, 2,4-bis(trimethyls...	282	C13H22O3Si2	033617-38-8	64
3	4-Hydroxymandelic acid, ethyl es...	340	C16H28O4Si2	1000071-53-3	56
4	Benzeneethanamine, N-butyl-.beta...	353	C18H35NO2Si2	040629-66-1	56
5	4-(2-Acetylamino-1-(trimethylsil...	339	C16H29NO3Si2	1000373-43-5	56





Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0

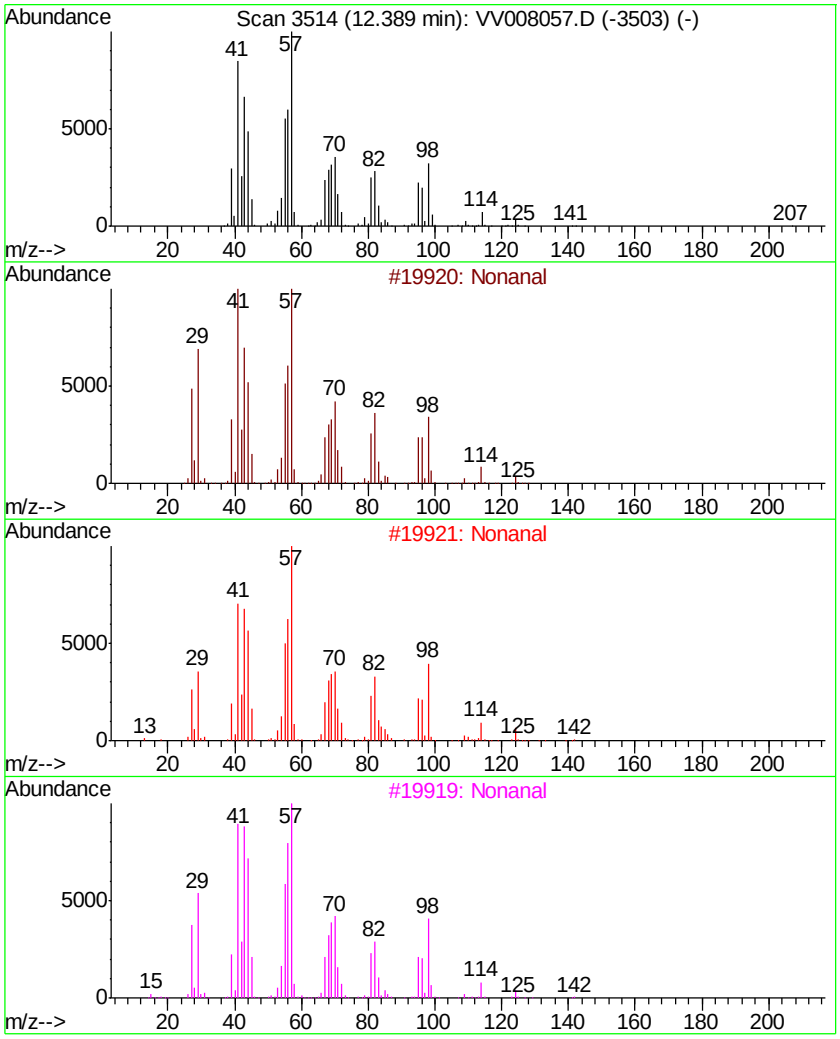
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

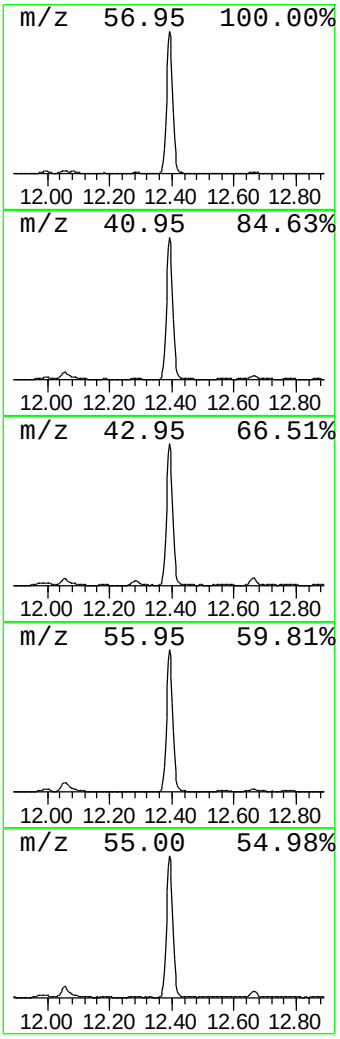
****

Peak Number 25 Nonanal Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	24.83 ug/L	1536130	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonanal	142	C9H18O	000124-19-6	91
2	Nonanal	142	C9H18O	000124-19-6	91
3	Nonanal	142	C9H18O	000124-19-6	90
4	Nonanal	142	C9H18O	000124-19-6	90
5	Cyclohexanol, 2-methyl-, trans-	114	C7H14O	007443-52-9	30





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0

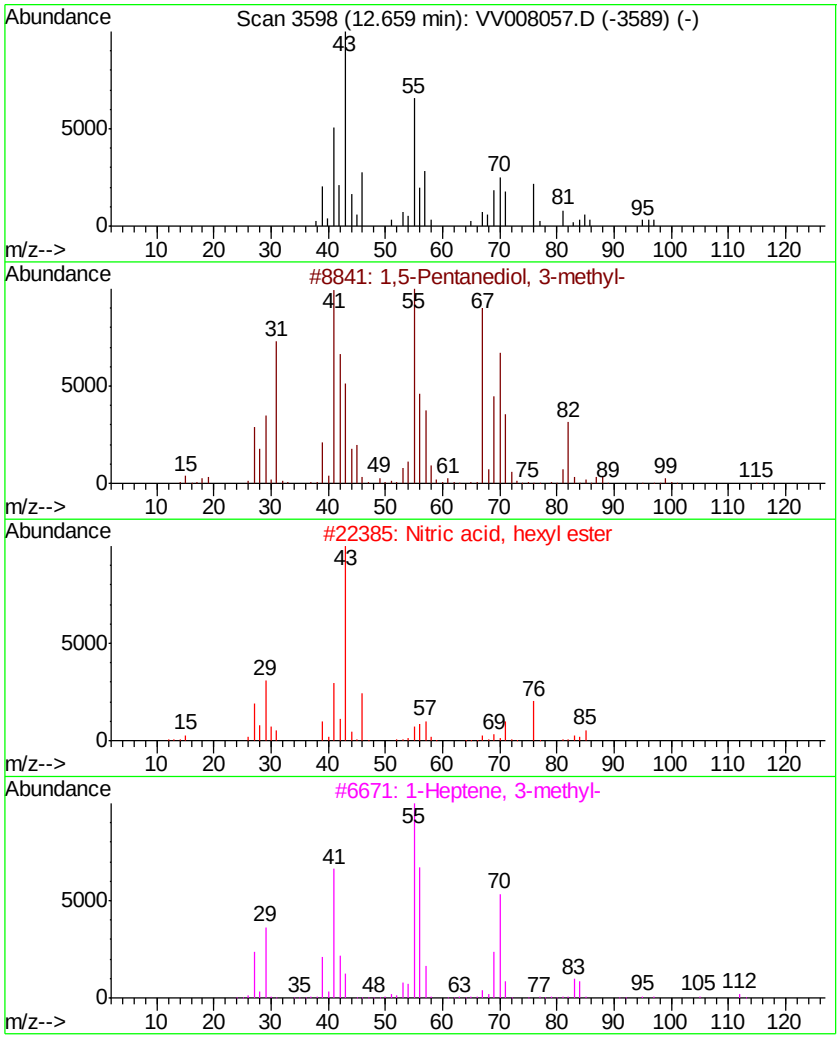
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

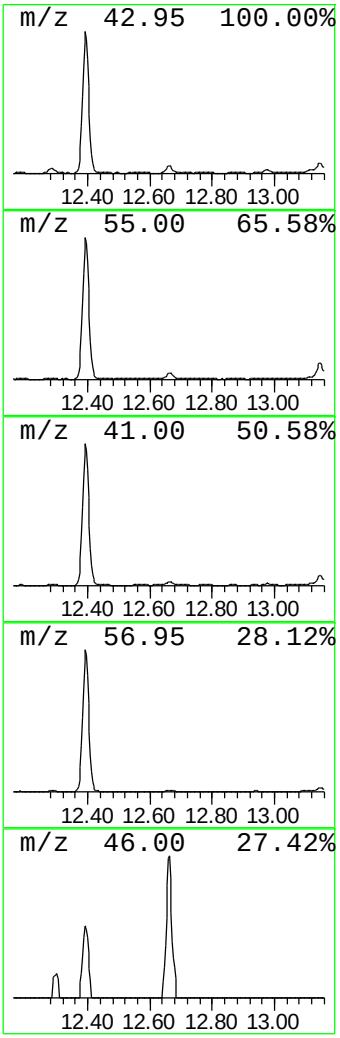
****

Peak Number 26 unknown-02 Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.66	0.57 ug/L	35225	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,5-Pentanediol, 3-methyl-	118	C6H14O2	004457-71-0	43
2	Nitric acid, hexyl ester	147	C6H13NO3	020633-11-8	38
3	1-Heptene, 3-methyl-	112	C8H16	004810-09-7	27
4	Hexane, 3-ethyl-	114	C8H18	000619-99-8	25
5	Pyrrolidine	71	C4H9N	000123-75-1	25





Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0

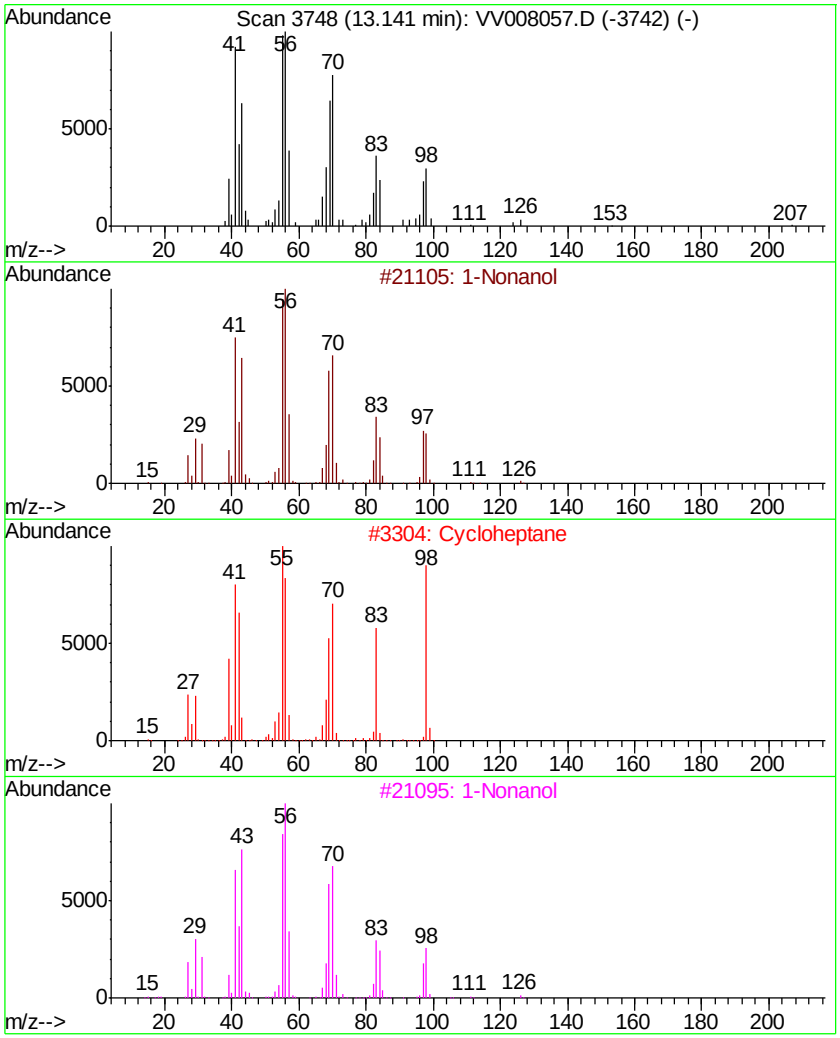
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

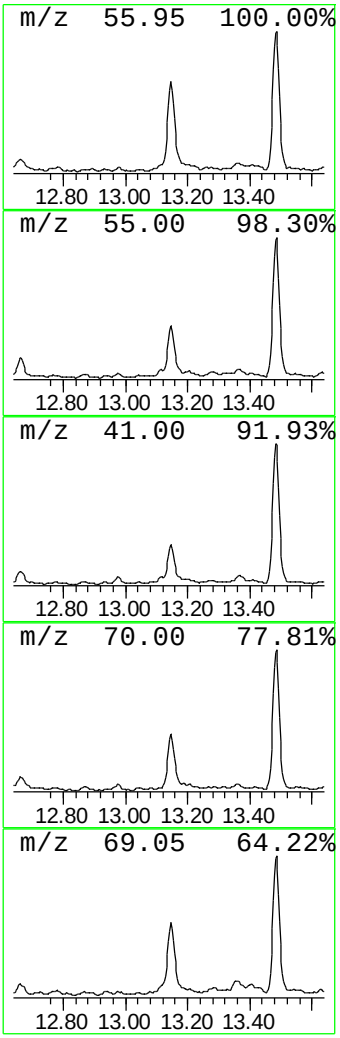
****

Peak Number 27 1-Nonanol Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.14	1.65 ug/L	102053	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Nonanol	144	C9H20O	000143-08-8	83
2	Cycloheptane	98	C7H14	000291-64-5	81
3	1-Nonanol	144	C9H20O	000143-08-8	78
4	1-Nonene	126	C9H18	000124-11-8	76
5	Cyclopropane, 1-ethyl-2-heptyl-	168	C12H24	074663-86-8	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0

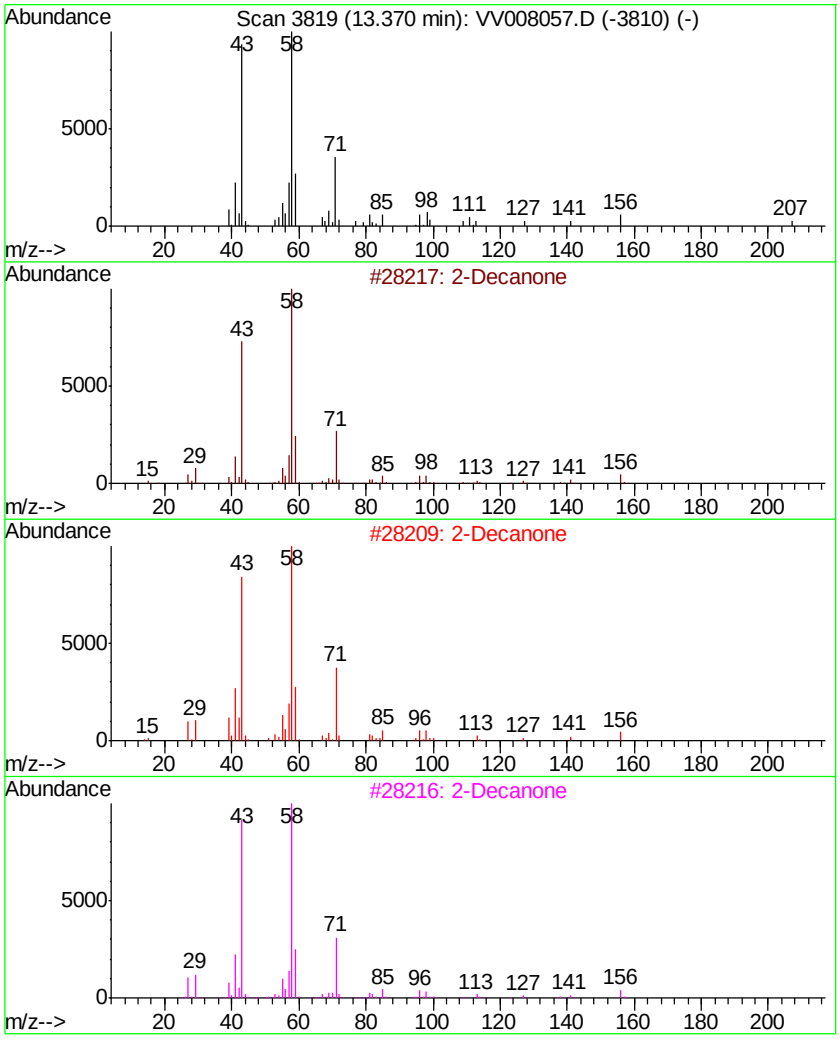
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

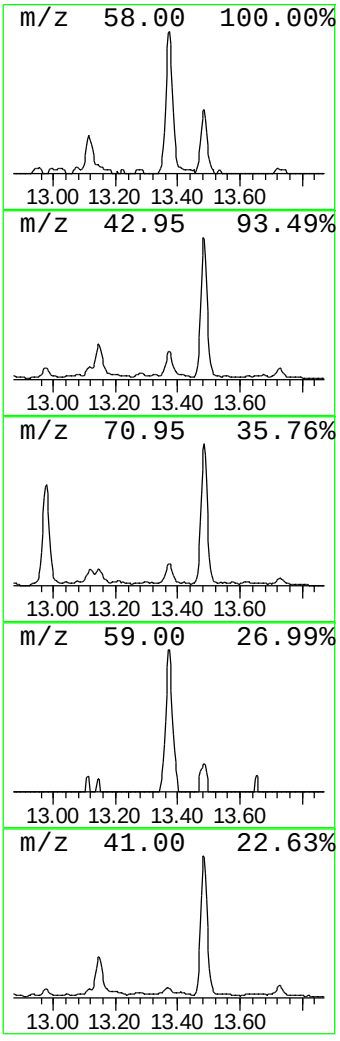
****

Peak Number 28 2-Decanone Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.37	0.61 ug/L	37601	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Decanone	156	C10H20O	000693-54-9	94
2	2-Decanone	156	C10H20O	000693-54-9	91
3	2-Decanone	156	C10H20O	000693-54-9	91
4	2-Hexanone, 5-methyl-	114	C7H14O	000110-12-3	72
5	11-Dodecen-2-one	182	C12H22O	005009-33-6	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0

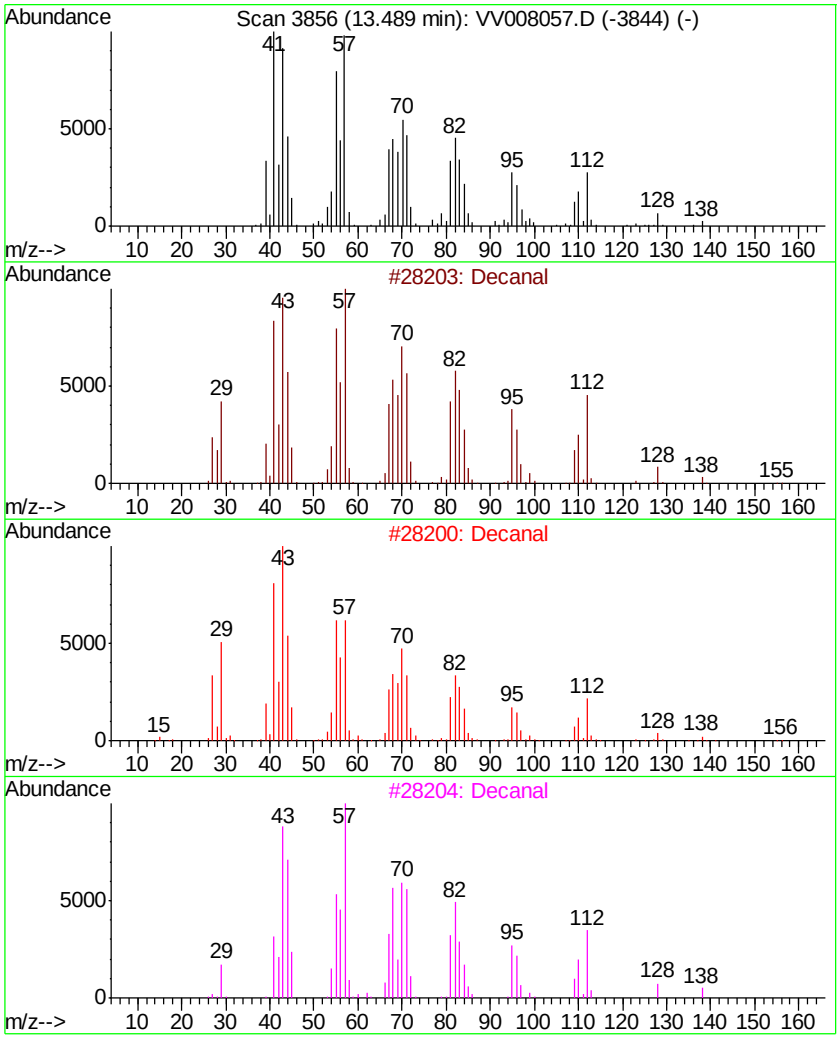
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

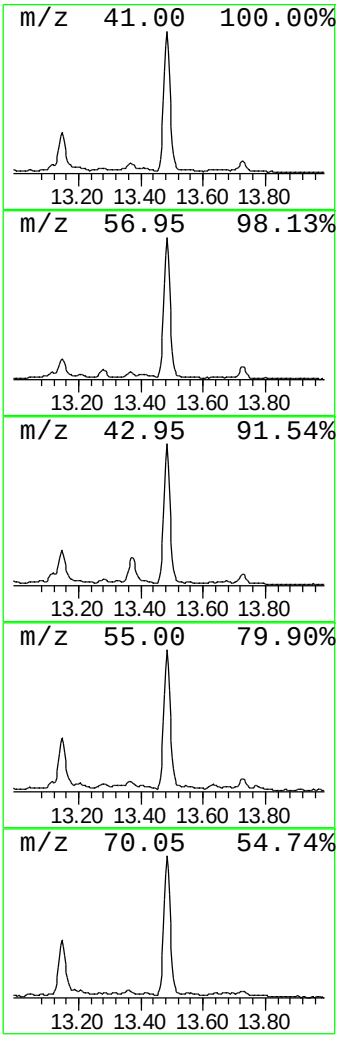
****

Peak Number 29 Decanal Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.49	7.02 ug/L	434574	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decanal	156	C10H20O	000112-31-2	91
2	Decanal	156	C10H20O	000112-31-2	91
3	Decanal	156	C10H20O	000112-31-2	87
4	Decanal	156	C10H20O	000112-31-2	80
5	2-Octen-1-ol, (E)-	128	C8H16O	018409-17-1	49





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV100418\
Data File : VV008057.D
Acq On : 04 Oct 2018 12:33
Operator : SY/MD
Sample : J5185-12
Misc : 25.0 mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JLC92

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
(DEL) Alkane: Str...	1.12	0.6	ug/L	27432	1	5.67	215370	5.0
Acetaldehyde	1.41	0.7	ug/L	30052	1	5.67	215370	5.0
(DEL) Alkane: Cyc...	1.78	1.0	ug/L	41692	1	5.67	215370	5.0
(DEL) Alkane: Cyc...	2.98	1.0	ug/L	44834	1	5.67	215370	5.0
Butanal	3.77	5.3	ug/L	230373	1	5.67	215370	5.0
Butanal, 3-methyl-	6.34	4.3	ug/L	185614	1	5.67	215370	5.0
Hexanal	8.29	6.9	ug/L	378956	2	8.90	273109	5.0
Nitric acid, buty...	8.72	0.7	ug/L	39839	2	8.90	273109	5.0
(DEL) Alkane: Str...	9.25	0.6	ug/L	30495	2	8.90	273109	5.0
Heptanal	9.86	10.9	ug/L	597607	2	8.90	273109	5.0
Nitric acid, pent...	10.21	0.7	ug/L	45217	3	11.30	309385	5.0
Furan, 2-butyltet...	10.56	0.7	ug/L	44009	3	11.30	309385	5.0
Formic acid, hept...	10.86	0.6	ug/L	37658	3	11.30	309385	5.0
Octanal	11.20	20.9	ug/L	1294010	3	11.30	309385	5.0
Nitric acid, hexy...	11.50	0.8	ug/L	49873	3	11.30	309385	5.0
1-Hexanol, 2-ethyl-	11.58	2.5	ug/L	151657	3	11.30	309385	5.0
unknown-01	12.00	0.7	ug/L	42242	3	11.30	309385	5.0
1-Octanol	12.05	1.7	ug/L	107172	3	11.30	309385	5.0
Plumbane, diethyl...	12.30	4.7	ug/L	289343	3	11.30	309385	5.0
Nonanal	12.39	24.8	ug/L	1536130	3	11.30	309385	5.0
unknown-02	12.66	0.6	ug/L	35225	3	11.30	309385	5.0
1-Nonanol	13.14	1.6	ug/L	102053	3	11.30	309385	5.0
2-Decanone	13.37	0.6	ug/L	37601	3	11.30	309385	5.0
Decanal	13.49	7.0	ug/L	434574	3	11.30	309385	5.0